

2013 - 2017

Top 20 Elsevier Journal Articles, from 26 subject areas

Select a subject area

※ Click the "title" for full text article and the "cited by" for citation information

Agricultural and Biological Sciences	Arts and Humanities	Biochemistry, Genetics and Molecular Biology	Business, Management and Accounting	Chemical Engineering	Chemistry
Computer Science	Decision Sciences	Earth and Planetary Sciences	Economics, Econometrics and Finance	Energy	Engineering
Environmental Science	Immunology and Microbiology	Materials Science	Mathematics	Medicine	Neuroscience
Nursing	Pharmacology, Toxicology and Pharmaceutics	Physics and Astronomy	Psychology	Social Sciences	Veterinary
Dentistry	Health Professions				

* All Data extracted from Scopus on 10th Jan, 2018

Agricultural and Biological Sciences

No.	Subject	Title	Year	Journal title	Cited by
1	AGRI	Impacts of biological invasions: What's what and the way forward	2013	Trends in Ecology and Evolution	654
2	AGRI	ROS function in redox signaling and oxidative stress	2014	Current Biology	527
3	AGRI	MITOS: Improved de novo metazoan mitochondrial genome annotation	2013	Molecular Phylogenetics and Evolution	470
4	AGRI	A review on antioxidants, prooxidants and related controversy: Natural and synthetic compounds, screening and analysis methodologies and future perspectives	2013	Food and Chemical Toxicology	406
5	AGRI	Landsat-8: Science and product vision for terrestrial global change research	2014	Remote Sensing of Environment	385
6	AGRI	Climate change, phenology, and phenological control of vegetation feedbacks to the climate system	2013	Agricultural and Forest Meteorology	370
7	AGRI	Satellite-derived land surface temperature: Current status and perspectives	2013	Remote Sensing of Environment	369
8	AGRI	Update of the Healthy Eating Index: HEI-2010	2013	Journal of the Academy of Nutrition and Dietetics	335
9	AGRI	Soil enzymes in a changing environment: Current knowledge and future directions	2013	Soil Biology and Biochemistry	331
10	AGRI	Ecological intensification: Harnessing ecosystem services for food security	2013	Trends in Ecology and Evolution	299
11	AGRI	A functional approach reveals community responses to disturbances	2013	Trends in Ecology and Evolution	297

12	AGRI	The knowns, known unknowns and unknowns of sequestration of soil organic carbon	2013	Agriculture, Ecosystems and Environment	285
13	AGRI	Yield gap analysis with local to global relevance-A review	2013	Field Crops Research	283
14	AGRI	Field high-throughput phenotyping: The new crop breeding frontier	2014	Trends in Plant Science	269
15	AGRI	Mycotoxins: Occurrence, toxicology, and exposure assessment	2013	Food and Chemical Toxicology	264
16	AGRI	The Agricultural Model Intercomparison and Improvement Project (AgMIP): Protocols and pilot studies	2013	Agricultural and Forest Meteorology	250
17	AGRI	Techniques for extraction of bioactive compounds from plant materials: A review	2013	Journal of Food Engineering	246
18	AGRI	A comprehensive change detection method for updating the National Land Cover Database to circa 2011	2013	Remote Sensing of Environment	243
19	AGRI	Agricultural expansion and its impacts on tropical nature	2014	Trends in Ecology and Evolution	239
20	AGRI	A stratigraphic framework for abrupt climatic changes during the Last Glacial period based on three synchronized Greenland ice-core records: Refining and extending the INTIMATE event stratigraphy	2014	Quaternary Science Reviews	237

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Arts and Humanities

No.	Subject	Title	Year	Journal title	Cited by
1	ARTS	Random effects structure for confirmatory hypothesis testing: Keep it maximal	2013	Journal of Memory and Language	1386
2	ARTS	YAGO2: A spatially and temporally enhanced knowledge base from Wikipedia	2013	Artificial Intelligence	308
3	ARTS	A review of modeling approaches for sustainable supply chain management	2013	Decision Support Systems	264
4	ARTS	A stratigraphic framework for abrupt climatic changes during the Last Glacial period based on three synchronized Greenland ice-core records: Refining and extending the INTIMATE event stratigraphy	2014	Quaternary Science Reviews	237
5	ARTS	Maximizing exposure therapy: An inhibitory learning approach	2014	Behaviour Research and Therapy	225
6	ARTS	Separate but equal? A comparison of participants and data gathered via Amazon's MTurk, social media, and face-to-face behavioral testing	2013	Computers in Human Behavior	225
7	ARTS	Leveraging the capabilities of service-oriented decision support systems: Putting analytics and big data in cloud	2013	Decision Support Systems	187
8	ARTS	The role of social media in higher education classes (real and virtual)-A literature review	2013	Computers in Human Behavior	168
9	ARTS	The nature of cyberbullying, and strategies for prevention	2013	Computers in Human Behavior	165
10	ARTS	A social gamification framework for a K-6 learning platform	2013	Computers in Human Behavior	160
11	ARTS	Socioeconomic inequalities and mental health problems in children and adolescents: A systematic review	2013	Social Science and Medicine	156
12	ARTS	Income inequality and health: A causal review	2015	Social Science and Medicine	146
13	ARTS	Facebook and texting made me do it: Media-induced task-switching while studying	2013	Computers in Human Behavior	145

14	ARTS	Problems of projection	2013	Lingua	144
15	ARTS	Working memory improvement with non-invasive brain stimulation of the dorsolateral prefrontal cortex: A systematic review and meta-analysis	2014	Brain and Cognition	132
16	ARTS	An empirical examination of continuance intention of mobile payment services	2013	Decision Support Systems	132
17	ARTS	An open-source toolkit for mining Wikipedia	2013	Artificial Intelligence	131
18	ARTS	Quantitative reconstructions in palaeolimnology: New paradigm or sick science?	2013	Quaternary Science Reviews	127
19	ARTS	Recommender system application developments: A survey	2015	Decision Support Systems	126
20	ARTS	Chinese cave records and the east asia summer monsoon	2014	Quaternary Science Reviews	126

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Biochemistry, Genetics and Molecular Biology

No.	Subject	Title	Year	Journal title	Cited by
1	BIOC	Cancer incidence and mortality patterns in Europe: Estimates for 40 countries in 2012	2013	European Journal of Cancer	2069
2	BIOC	The hallmarks of aging	2013	Cell	1777
3	BIOC	One-step generation of mice carrying mutations in multiple genes by CRISPR/cas-mediated genome engineering	2013	Cell	1371
4	BIOC	Development and applications of CRISPR-Cas9 for genome engineering	2014	Cell	1247
5	BIOC	ZFN, TALEN, and CRISPR/Cas-based methods for genome engineering	2013	Trends in Biotechnology	1202
6	BIOC	Global estimates of diabetes prevalence for 2013 and projections for 2035	2014	Diabetes Research and Clinical Practice	1181
7	BIOC	Double nicking by RNA-guided CRISPR cas9 for enhanced genome editing specificity	2013	Cell	1055
8	BIOC	The somatic genomic landscape of glioblastoma	2013	Cell	1016
9	BIOC	Repurposing CRISPR as an RNA-yuided platform for sequence-specific control of gene expression	2013	Cell	987
10	BIOC	Master transcription factors and mediator establish super-enhancers at key cell identity genes	2013	Cell	798
11	BIOC	A 3D map of the human genome at kilobase resolution reveals principles of chromatin looping	2014	Cell	778
12	BIOC	XCRISPR-mediated modular RNA-guided regulation of transcription in eukaryotes	2013	Cell	753
13	BIOC	Review of bioactive glass: From Hench to hybrids	2013	Acta Biomaterialia	698
14	BIOC	XSuper-enhancers in the control of cell identity and disease	2013	Cell	673
15	BIOC	Microbiota modulate behavioral and physiological abnormalities associated with neurodevelopmental disorders	2013	Cell	660
16	BIOC	XLincRNAs: Genomics, evolution, and mechanisms	2013	Cell	644
17	BIOC	Selective inhibition of tumor oncogenes by disruption of super-enhancers	2013	Cell	641
18	BIOC	Natural products: A continuing source of novel drug leads	2013	Biochimica et Biophysica Acta - General Subjects	624
19	BIOC	XOne-step generation of mice carrying reporter and conditional alleles by CRISPR/cas-mediated genome engineering	2013	Cell	600
20	BIOC	Long noncoding RNAs: Cellular address codes in development and disease	2013	Cell	597

Business, Management and Accounting

No.	Subject	Title	Year	Journal title	Cited by
1	BUSI	Recommender systems survey	2013	Knowledge-Based Systems	639
2	BUSI	Recycling of rare earths: A critical review	2013	Journal of Cleaner Production	463
3	BUSI	The dynamics of crowdfunding: An exploratory study	2014	Journal of Business Venturing	385
4	BUSI	Consumer engagement in a virtual brand community: An exploratory analysis	2013	Journal of Business Research	376
5	BUSI	Moving beyond multiple regression analysis to algorithms: Calling for adoption of a paradigm shift from symmetric to asymmetric thinking in data analysis and crafting theory	2013	Journal of Business Research	329
6	BUSI	From e-commerce to social commerce: A close look at design features	2013	Electronic Commerce Research and Applications	321
7	BUSI	Academic engagement and commercialisation: A review of the literature on university-industry relations	2013	Research Policy	321
8	BUSI	Hyper-heuristics: A survey of the state of the art	2013	Journal of the Operational Research Society	264
9	BUSI	A review of modeling approaches for sustainable supply chain management	2013	Decision Support Systems	264
10	BUSI	Crowdfunding: Tapping the right crowd	2014	Journal of Business Venturing	263
11	BUSI	A literature and practice review to develop sustainable business model archetypes	2014	Journal of Cleaner Production	258
12	BUSI	Business models for sustainable innovation: State-of-the-art and steps towards a research agenda	2013	Journal of Cleaner Production	258
13	BUSI	Current trends in smart city initiatives: Some stylised facts	2014	Cities	255
14	BUSI	Developing a framework for responsible innovation	2013	Research Policy	229
15	BUSI	You are what you can access: Sharing and collaborative consumption online	2014	Journal of Business Research	226
16	BUSI	A comparative literature analysis of definitions for green and sustainable supply chain management	2013	Journal of Cleaner Production	222
17	BUSI	Electricity price forecasting: A review of the state-of-the-art with a look into the future	2014	International Journal of Forecasting	189
18	BUSI	A five-factor asset pricing model	2015	Journal of Financial Economics	187
19	BUSI	Leveraging the capabilities of service-oriented decision support systems: Putting analytics and big data in cloud	2013	Decision Support Systems	187
20	BUSI	A taxonomy of line balancing problems and their solution approaches	2013	International Journal of Production Economics	186

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Chemical Engineering

No.	Subject	Title	Year	Journal title	Cited by
1	CENG	ZFN, TALEN, and CRISPR/Cas-based methods for genome engineering	2013	Trends in Biotechnology	1202
2	CENG	Dye and its removal from aqueous solution by adsorption: A review	2014	Advances in Colloid and Interface Science	482
3	CENG	Dual and multi-stimuli responsive polymeric nanoparticles for programmed site-specific drug delivery	2013	Biomaterials	457

4	CENG	Adsorptive removal of dyes from aqueous solution onto carbon nanotubes: A review	2013	Advances in Colloid and Interface Science	426
5	CENG	A review of the applications of nanofluids in solar energy	2013	International Journal of Heat and Mass Transfer	403
6	CENG	Organic and inorganic contaminants removal from water with biochar, a renewable, low cost and sustainable adsorbent - A critical review	2014	Bioresource Technology	399
7	CENG	Pore structure characterization of North American shale gas reservoirs using USANS/SANS, gas adsorption, and mercury intrusion	2013	Fuel	360
8	CENG	The big picture on nanomedicine: The state of investigational and approved nanomedicine products	2013	Nanomedicine: Nanotechnology, Biology, and Medicine	357
9	CENG	A review of the biomaterials technologies for infection-resistant surfaces	2013	Biomaterials	351
10	CENG	Decontamination of wastewaters containing synthetic organic dyes by electrochemical methods. An updated review	2015	Applied Catalysis B: Environmental	336
11	CENG	Novel visible-light-driven AgX/graphite-like C₃N₄(X=Br, I) hybrid materials with synergistic photocatalytic activity	2013	Applied Catalysis B: Environmental	327
12	CENG	Thermal energy storage technologies and systems for concentrating solar power plants	2013	Progress in Energy and Combustion Science	321
13	CENG	Plasma-assisted ignition and combustion	2013	Progress in Energy and Combustion Science	302
14	CENG	Soft robotics: A bioinspired evolution in robotics	2013	Trends in Biotechnology	299
15	CENG	Technical review and evaluation of the economics of water desalination: Current and future challenges for better water supply sustainability	2013	Desalination	295
16	CENG	Application and modification of poly(vinylidene fluoride) (PVDF) membranes - A review	2014	Journal of Membrane Science	291
17	CENG	Surface modification of TiO₂ photocatalyst for environmental applications	2013	Journal of Photochemistry and Photobiology C: Photochemistry Reviews	290
18	CENG	Hybrid nanostructures based on titanium dioxide for enhanced photocatalysis	2015	Applied Catalysis A: General	285
19	CENG	Three dimensional mesoscopic simulation of magnetic field effect on natural convection of nanofluid	2015	International Journal of Heat and Mass Transfer	278
20	CENG	Recent advances in designing superhydrophobic surfaces	2013	Journal of Colloid and Interface Science	271

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Chemistry

No.	Subject	Title	Year	Journal title	Cited by
1	CHEM	The HITRAN2012 molecular spectroscopic database	2013	Journal of Quantitative Spectroscopy and Radiative Transfer	1522
2	CHEM	A review on the key issues for lithium-ion battery management in electric vehicles	2013	Journal of Power Sources	866
3	CHEM	Biochar as a sorbent for contaminant management in soil and water: A review	2014	Chemosphere	585
4	CHEM	Surface modification of inorganic nanoparticles for development of organic-inorganic nanocomposites - A review	2013	Progress in Polymer Science	556
5	CHEM	Phytoremediation of heavy metals-Concepts and applications	2013	Chemosphere	556

6	CHEM	Liquid electrolyte lithium/sulfur battery: Fundamental chemistry, problems, and solutions	2013	Journal of Power Sources	549
7	CHEM	Review on recent progress of nanostructured anode materials for Li-ion batteries	2014	Journal of Power Sources	519
8	CHEM	Nitroxide-mediated polymerization	2013	Progress in Polymer Science	489
9	CHEM	Dye and its removal from aqueous solution by adsorption: A review	2014	Advances in Colloid and Interface Science	482
10	CHEM	Design and construction of coordination polymers with mixed-ligand synthetic strategy	2013	Coordination Chemistry Reviews	444
11	CHEM	Poly(ionic liquid)s: An update	2013	Progress in Polymer Science	440
12	CHEM	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications	2014	Progress in Polymer Science	434
13	CHEM	Adsorptive removal of dyes from aqueous solution onto carbon nanotubes: A review	2013	Advances in Colloid and Interface Science	426
14	CHEM	Chitosan-based biomaterials for tissue engineering	2013	European Polymer Journal	424
15	CHEM	Recent advances in dysprosium-based single molecule magnets: Structural overview and synthetic strategies	2013	Coordination Chemistry Reviews	403
16	CHEM	Efficiency of bulk-heterojunction organic solar cells	2013	Progress in Polymer Science	392
17	CHEM	Bio-nanocomposites for food packaging applications	2013	Progress in Polymer Science	386
18	CHEM	Pore structure characterization of North American shale gas reservoirs using USANS/SANS, gas adsorption, and mercury intrusion	2013	Fuel	360
19	CHEM	Polylactide (PLA)-based nanocomposites	2013	Progress in Polymer Science	324
20	CHEM	Energy-efficient polymeric gas separation membranes for a sustainable future: A review	2013	Polymer (United Kingdom)	320

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Computer Science

No.	Subject	Title	Year	Journal title	Cited by
1	COMP	Internet of Things (IoT): A vision, architectural elements, and future directions	2013	Future Generation Computer Systems	1881
2	COMP	Random effects structure for confirmatory hypothesis testing: Keep it maximal	2013	Journal of Memory and Language	1386
3	COMP	Deep Learning in neural networks: An overview	2015	Neural Networks	960
4	COMP	Recommender systems survey	2013	Knowledge-Based Systems	639
5	COMP	Mobile cloud computing: A survey	2013	Future Generation Computer Systems	614
6	COMP	Gromacs: High performance molecular simulations through multi-level parallelism from laptops to supercomputers	2015	SoftwareX	573
7	COMP	Grey Wolf Optimizer	2014	Advances in Engineering Software	569
8	COMP	Multisensor data fusion: A review of the state-of-the-art	2013	Information Fusion	497
9	COMP	Characterising performance of environmental models	2013	Environmental Modelling and Software	489
10	COMP	Data-intensive applications, challenges, techniques and technologies: A survey on Big Data	2014	Information Sciences	482
11	COMP	FeynRules 2.0 - A complete toolbox for tree-level phenomenology	2014	Computer Physics Communications	476
12	COMP	Unmanned aerial systems for photogrammetry and remote sensing: A review	2014	ISPRS Journal of Photogrammetry and Remote Sensing	415

13	COMP	A review on empirical mode decomposition in fault diagnosis of rotating machinery	2013	Mechanical Systems and Signal Processing	391
14	COMP	The rise of "big data" on cloud computing: Review and open research issues	2015	Information Systems	355
15	COMP	Gamifying learning experiences: Practical implications and outcomes	2013	Computers and Education	340
16	COMP	A survey on feature selection methods	2014	Computers and Electrical Engineering	339
17	COMP	An introduction to PYTHIA 8.2	2015	Computer Physics Communications	338
18	COMP	From e-commerce to social commerce: A close look at design features	2013	Electronic Commerce Research and Applications	321
19	COMP	CalcHEP 3.4 for collider physics within and beyond the Standard Model	2013	Computer Physics Communications	313
20	COMP	Wavelets for fault diagnosis of rotary machines: A review with applications	2014	Signal Processing	312

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Decision Sciences

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1	DECI	Recommender systems survey	2013	Knowledge-Based Systems	639
2	DECI	Data-intensive applications, challenges, techniques and technologies: A survey on Big Data	2014	Information Sciences	482
3	DECI	Academic engagement and commercialisation: A review of the literature on university-industry relations	2013	Research Policy	321
4	DECI	A survey on optimization metaheuristics	2013	Information Sciences	292
5	DECI	Hyper-heuristics: A survey of the state of the art	2013	Journal of the Operational Research Society	264
6	DECI	A review of modeling approaches for sustainable supply chain management	2013	Decision Support Systems	264
7	DECI	Reverse logistics and closed-loop supply chain: A comprehensive review to explore the future	2015	European Journal of Operational Research	260
8	DECI	A review of dynamic vehicle routing problems	2013	European Journal of Operational Research	260
9	DECI	Quantitative models for sustainable supply chain management: Developments and directions	2014	European Journal of Operational Research	245
10	DECI	A rapid learning algorithm for vehicle classification	2015	Information Sciences	244
11	DECI	An insight into classification with imbalanced data: Empirical results and current trends on using data intrinsic characteristics	2013	Information Sciences	234
12	DECI	Developing a framework for responsible innovation	2013	Research Policy	229
13	DECI	Multiobjective cuckoo search for design optimization	2013	Computers and Operations Research	227
14	DECI	Security and privacy for storage and computation in cloud computing	2014	Information Sciences	198
15	DECI	Leveraging the capabilities of service-oriented decision support systems: Putting analytics and big data in cloud	2013	Decision Support Systems	187
16	DECI	A taxonomy of line balancing problems and their solution approaches	2013	International Journal of Production Economics	186
17	DECI	Ship routing and scheduling in the new millennium	2013	European Journal of Operational Research	179
18	DECI	Asynchronous spiking neural P systems with local synchronization	2013	Information Sciences	179
19	DECI	A group decision making model dealing with comparative linguistic expressions based on hesitant fuzzy linguistic term sets	2013	Information Sciences	177

20	DECI	Black hole: A new heuristic optimization approach for data clustering	2013	Information Sciences	175
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Earth and Planetary Sciences

No.	Subject	Title	Year	Journal title	Cited by
1	EART	Unmanned aerial systems for photogrammetry and remote sensing: A review	2014	ISPRS Journal of Photogrammetry and Remote Sensing	415
2	EART	Landsat-8: Science and product vision for terrestrial global change research	2014	Remote Sensing of Environment	385
3	EART	The origin and pre-Cenozoic evolution of the Tibetan Plateau	2013	Gondwana Research	379
4	EART	Gondwana dispersion and Asian accretion: Tectonic and palaeogeographic evolution of eastern Tethys	2013	Journal of Asian Earth Sciences	373
5	EART	Climate change, phenology, and phenological control of vegetation feedbacks to the climate system	2013	Agricultural and Forest Meteorology	370
6	EART	Satellite-derived land surface temperature: Current status and perspectives	2013	Remote Sensing of Environment	369
7	EART	Paleozoic multiple accretionary and collisional tectonics of the Chinese Tianshan orogenic collage	2013	Gondwana Research	336
8	EART	Lithotectonic elements of Precambrian basement in the North China Craton: Review and tectonic implications	2013	Gondwana Research	334
9	EART	Geographic Object-Based Image Analysis - Towards a new paradigm	2014	ISPRS Journal of Photogrammetry and Remote Sensing	298
10	EART	Change detection from remotely sensed images: From pixel-based to object-based approaches	2013	ISPRS Journal of Photogrammetry and Remote Sensing	295
11	EART	Introduction to tectonics of China	2013	Gondwana Research	289
12	EART	The organic geochemistry of glycerol dialkyl glycerol tetraether lipids: A review	2013	Organic Geochemistry	283
13	EART	Phanerozoic tectonics of the South China Block: Key observations and controversies	2013	Gondwana Research	282
14	EART	Metallogeny of the North China Craton: Link with secular changes in the evolving Earth	2013	Gondwana Research	279
15	EART	Reassessment of continental growth during the accretionary history of the Central Asian Orogenic Belt	2014	Gondwana Research	267
16	EART	Improvements in ²³⁰Th dating, ²³⁰Th and ²³⁴U half-life values, and U-Th isotopic measurements by multi-collector inductively coupled plasma mass spectrometry	2013	Earth and Planetary Science Letters	252
17	EART	The Agricultural Model Intercomparison and Improvement Project (AgMIP): Protocols and pilot studies	2013	Agricultural and Forest Meteorology	250
18	EART	Global land cover mapping at 30 m resolution: A POK-based operational approach	2014	ISPRS Journal of Photogrammetry and Remote Sensing	249
19	EART	High-resolution X-ray computed tomography in geosciences: A review of the current technology and applications	2013	Earth-Science Reviews	248
20	EART	A comparative study on the predictive ability of the decision tree, support vector machine and neuro-fuzzy models in landslide susceptibility mapping using GIS	2013	Computers and Geosciences	248

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Economics, Econometrics and Finance

No.	Subject	Title	Year	Journal title	Cited by
1	ECON	A new data set of educational attainment in the world, 1950-2010	2013	Journal of Development Economics	468
2	ECON	Classifying and valuing ecosystem services for urban planning	2013	Ecological Economics	260
3	ECON	A five-factor asset pricing model	2015	Journal of Financial Economics	187
4	ECON	A taxonomy of line balancing problems and their solution approaches	2013	International Journal of Production Economics	186
5	ECON	Islamic vs. conventional banking: Business model, efficiency and stability	2013	Journal of Banking and Finance	184
6	ECON	Partial Least Squares Structural Equation Modeling: Rigorous Applications, Better Results and Higher Acceptance	2013	Long Range Planning	183
7	ECON	Global catches, exploitation rates, and rebuilding options for sharks	2013	Marine Policy	172
8	ECON	Systemic banking crises database	2013	IMF Economic Review	172
9	ECON	How does capital affect bank performance during financial crises?	2013	Journal of Financial Economics	171
10	ECON	The market value of variable renewables. The effect of solar wind power variability on their relative price	2013	Energy Economics	171
11	ECON	Rare earth elements as critical raw materials: Focus on international markets and future strategies	2013	Resources Policy	155
12	ECON	The long-run and causal analysis of energy, growth, openness and financial development on carbon emissions in Turkey	2013	Energy Economics	155
13	ECON	Social licence and mining: A critical perspective	2013	Resources Policy	152
14	ECON	Beyond GDP: Measuring and achieving global genuine progress	2013	Ecological Economics	149
15	ECON	Barriers analysis for green supply chain management implementation in Indian industries using analytic hierarchy process	2014	International Journal of Production Economics	139
16	ECON	A dynamic capabilities-based entrepreneurial theory of the multinational enterprise	2014	Journal of International Business Studies	138
17	ECON	Environmental Income and Rural Livelihoods: A Global-Comparative Analysis	2014	World Development	136
18	ECON	A review of archival auditing research	2014	Journal of Accounting and Economics	136
19	ECON	Business Models and Technological Innovation	2013	Long Range Planning	136
20	ECON	Betting against beta	2014	Journal of Financial Economics	132

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Energy

No.	Subject	Title	Year	Journal title	Cited by
1	ENER	A review on the key issues for lithium-ion battery management in electric vehicles	2013	Journal of Power Sources	866
2	ENER	A comprehensive review on PEM water electrolysis	2013	International Journal of Hydrogen Energy	640
3	ENER	Liquid electrolyte lithium/sulfur battery: Fundamental chemistry, problems, and solutions	2013	Journal of Power Sources	549
4	ENER	Review on recent progress of nanostructured anode materials for Li-ion batteries	2014	Journal of Power Sources	519

5	ENER	Demand response and smart grids - A survey	2014	Renewable and Sustainable Energy Reviews	513
6	ENER	Hybrid nanostructured materials for high-performance electrochemical capacitors	2013	Nano Energy	483
7	ENER	Recycling of rare earths: A critical review	2013	Journal of Cleaner Production	463
8	ENER	Techno-economic survey of organic rankine cycle (ORC) systems	2013	Renewable and Sustainable Energy Reviews	405
9	ENER	Overview of current development in electrical energy storage technologies and the application potential in power system operation	2015	Applied Energy	385
10	ENER	A review of working fluid and expander selections for organic Rankine cycle	2013	Renewable and Sustainable Energy Reviews	384
11	ENER	What are we doing here? Analyzing fifteen years of energy scholarship and proposing a social science research agenda	2014	Energy Research and Social Science	363
12	ENER	A review of solar collectors and thermal energy storage in solar thermal applications	2013	Applied Energy	360
13	ENER	Pore structure characterization of North American shale gas reservoirs using USANS/SANS, gas adsorption, and mercury intrusion	2013	Fuel	360
14	ENER	Biodiesel from microalgae: A critical evaluation from laboratory to large scale production	2013	Applied Energy	329
15	ENER	Cooling the cities - A review of reflective and green roof mitigation technologies to fight heat island and improve comfort in urban environments	2014	Solar Energy	326
16	ENER	Thermal energy storage technologies and systems for concentrating solar power plants	2013	Progress in Energy and Combustion Science	321
17	ENER	Review Recent progress in high-voltage lithium ion batteries	2013	Journal of Power Sources	318
18	ENER	An overview of current status of carbon dioxide capture and storage technologies	2014	Renewable and Sustainable Energy Reviews	315
19	ENER	4th Generation District Heating (4GDH). Integrating smart thermal grids into future sustainable energy systems.	2014	Energy	309
20	ENER	Non-edible vegetable oils: A critical evaluation of oil extraction, fatty acid compositions, biodiesel production, characteristics, engine performance and emissions production	2013	Renewable and Sustainable Energy Reviews	307

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Engineering

No.	Subject	Title	Year	Journal title	Cited by
1	ENGI	A review on the key issues for lithium-ion battery management in electric vehicles	2013	Journal of Power Sources	866
2	ENGI	Review of bioactive glass: From Hench to hybrids	2013	Acta Biomaterialia	698
3	ENGI	OARSI guidelines for the non-surgical management of knee osteoarthritis	2014	Osteoarthritis and Cartilage	591
4	ENGI	Grey Wolf Optimizer	2014	Advances in Engineering Software	569
5	ENGI	Liquid electrolyte lithium/sulfur battery: Fundamental chemistry, problems, and solutions	2013	Journal of Power Sources	549
6	ENGI	Wirtinger-based integral inequality: Application to time-delay systems	2013	Automatica	537
7	ENGI	Review on recent progress of nanostructured anode materials for Li-ion batteries	2014	Journal of Power Sources	519

8	ENGI	A review of shape memory alloy research, applications and opportunities	2014	Materials and Design	495
9	ENGI	Hybrid nanostructured materials for high-performance electrochemical capacitors	2013	Nano Energy	483
10	ENGI	Data-intensive applications, challenges, techniques and technologies: A survey on Big Data	2014	Information Sciences	482
11	ENGI	Li-ion battery materials: Present and future	2015	Materials Today	480
12	ENGI	Recycling of rare earths: A critical review	2013	Journal of Cleaner Production	463
13	ENGI	Dual and multi-stimuli responsive polymeric nanoparticles for programmed site-specific drug delivery	2013	Biomaterials	457
14	ENGI	Shear bands in metallic glasses	2013	Materials Science and Engineering R: Reports	428
15	ENGI	Unmanned aerial systems for photogrammetry and remote sensing: A review	2014	ISPRS Journal of Photogrammetry and Remote Sensing	415
16	ENGI	A review of the applications of nanofluids in solar energy	2013	International Journal of Heat and Mass Transfer	403
17	ENGI	Biodegradable metals	2014	Materials Science and Engineering R: Reports	399
18	ENGI	A review on empirical mode decomposition in fault diagnosis of rotating machinery	2013	Mechanical Systems and Signal Processing	391
19	ENGI	Highly sensitive and selective gas sensors using p-type oxide semiconductors: Overview	2014	Sensors and Actuators, B: Chemical	389
20	ENGI	Overview of current development in electrical energy storage technologies and the application potential in power system operation	2015	Applied Energy	385

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Environmental Science

No.	Subject	Title	Year	Journal title	Cited by
1	ENVI	Changes in the global value of ecosystem services	2014	Global Environmental Change	658
2	ENVI	A review on the occurrence of micropollutants in the aquatic environment and their fate and removal during wastewater treatment	2014	Science of the Total Environment	608
3	ENVI	Biochar as a sorbent for contaminant management in soil and water: A review	2014	Chemosphere	585
4	ENVI	Phytoremediation of heavy metals-Concepts and applications	2013	Chemosphere	556
5	ENVI	Characterising performance of environmental models	2013	Environmental Modelling and Software	489
6	ENVI	Recycling of rare earths: A critical review	2013	Journal of Cleaner Production	463
7	ENVI	Applications of nanotechnology in water and wastewater treatment	2013	Water Research	459
8	ENVI	Urban wastewater treatment plants as hotspots for the release of antibiotics in the environment: A review	2013	Water Research	402
9	ENVI	Organic and inorganic contaminants removal from water with biochar, a renewable, low cost and sustainable adsorbent - A critical review	2014	Bioresource Technology	399
10	ENVI	Overview of current development in electrical energy storage technologies and the application potential in power system operation	2015	Applied Energy	385

11	ENVI	Urban wastewater treatment plants as hotspots for antibiotic resistant bacteria and genes spread into the environment: A review	2013	Science of the Total Environment	385
12	ENVI	A review of soil heavy metal pollution from mines in China: Pollution and health risk assessment	2014	Science of the Total Environment	380
13	ENVI	Pore-scale imaging and modelling	2013	Advances in Water Resources	373
14	ENVI	Climate change, phenology, and phenological control of vegetation feedbacks to the climate system	2013	Agricultural and Forest Meteorology	370
15	ENVI	A review of solar collectors and thermal energy storage in solar thermal applications	2013	Applied Energy	360
16	ENVI	Environmental concentrations of engineered nanomaterials: Review of modeling and analytical studies	2013	Environmental Pollution	337
17	ENVI	Decontamination of wastewaters containing synthetic organic dyes by electrochemical methods. An updated review	2015	Applied Catalysis B: Environmental	336
18	ENVI	Adsorptive removal of hazardous materials using metal-organic frameworks (MOFs): A review	2013	Journal of Hazardous Materials	336
19	ENVI	Novel visible-light-driven AgX/graphite-like C₃N₄(X=Br, I) hybrid materials with synergistic photocatalytic activity	2013	Applied Catalysis B: Environmental	327
20	ENVI	4th Generation District Heating (4GDH). Integrating smart thermal grids into future sustainable energy systems.	2014	Energy	309

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Immunology and Microbiology

No.	Subject	Title	Year	Journal title	Cited by
1	IMMU	Macrophage Activation and Polarization: Nomenclature and Experimental Guidelines	2014	Immunity	960
2	IMMU	Fate Mapping Reveals Origins and Dynamics of Monocytes and Tissue Macrophages under Homeostasis	2013	Immunity	676
3	IMMU	Oncology meets immunology: The cancer-immunity cycle	2013	Immunity	592
4	IMMU	The treatment-naïve microbiome in new-onset Crohn's disease	2014	Cell Host and Microbe	578
5	IMMU	Tissue-resident macrophages self-maintain locally throughout adult life with minimal contribution from circulating monocytes	2013	Immunity	568
6	IMMU	Tumor-Associated Macrophages: From Mechanisms to Therapy	2014	Immunity	562
7	IMMU	The Interleukin-1 Family: Back to the Future	2013	Immunity	474
8	IMMU	Transcriptome-Based Network Analysis Reveals a Spectrum Model of Human Macrophage Activation	2014	Immunity	431
9	IMMU	Food allergy: Epidemiology, pathogenesis, diagnosis, and treatment	2014	Journal of Allergy and Clinical Immunology	420
10	IMMU	Stromal cells from the adipose tissue-derived stromal vascular fraction and culture expanded adipose tissue-derived stromal/stem cells: A joint statement of the International Federation for Adipose Therapeutics and Science (IFATS) and the International Society for Cellular Therapy (ISCT)	2013	Cytotherapy	402
11	IMMU	K⁺ Efflux Is the Common Trigger of NLRP3 Inflammasome Activation by Bacterial Toxins and Particulate Matter	2013	Immunity	375

12	IMMU	Necroptosis: The Release of Damage-Associated Molecular Patterns and Its Physiological Relevance	2013	Immunity	348
13	IMMU	Soil enzymes in a changing environment: Current knowledge and future directions	2013	Soil Biology and Biochemistry	331
14	IMMU	T Follicular Helper Cell Differentiation, Function, and Roles in Disease	2014	Immunity	327
15	IMMU	Activation of Gpr109a, receptor for niacin and the commensal metabolite butyrate, suppresses colonic inflammation and carcinogenesis	2014	Immunity	320
16	IMMU	Conventional and Monocyte-Derived CD11b+ Dendritic Cells Initiate and Maintain T Helper 2 Cell-Mediated Immunity to House Dust Mite Allergen	2013	Immunity	308
17	IMMU	Fusobacterium nucleatum Potentiates Intestinal Tumorigenesis and Modulates the Tumor-Immune Microenvironment	2013	Cell Host and Microbe	305
18	IMMU	Spatiotemporal dynamics of intratumoral immune cells reveal the immune landscape in human cancer	2013	Immunity	298
19	IMMU	IRF4 Transcription Factor-Dependent CD11b⁺ Dendritic Cells in Human and Mouse Control Mucosal IL-17 Cytokine Responses	2013	Immunity	298
20	IMMU	Dynamics and stabilization of the human gut microbiome during the first year of life	2015	Cell Host and Microbe	293

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Materials Science

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1	MATE	Microstructures and properties of high-entropy alloys	2014	Progress in Materials Science	752
2	MATE	Review of bioactive glass: From Hench to hybrids	2013	Acta Biomaterialia	698
3	MATE	Extreme grain refinement by severe plastic deformation: A wealth of challenging science	2013	Acta Materialia	603
4	MATE	Surface modification of inorganic nanoparticles for development of organic-inorganic nanocomposites - A review	2013	Progress in Polymer Science	556
5	MATE	A review of shape memory alloy research, applications and opportunities	2014	Materials and Design	495
6	MATE	Nitroxide-mediated polymerization	2013	Progress in Polymer Science	489
7	MATE	Hybrid nanostructured materials for high-performance electrochemical capacitors	2013	Nano Energy	483
8	MATE	First principles phonon calculations in materials science	2015	Scripta Materialia	482
9	MATE	Li-ion battery materials: Present and future	2015	Materials Today	480
10	MATE	Dual and multi-stimuli responsive polymeric nanoparticles for programmed site-specific drug delivery	2013	Biomaterials	457
11	MATE	Poly(ionic liquid)s: An update	2013	Progress in Polymer Science	440
12	MATE	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications	2014	Progress in Polymer Science	434
13	MATE	Shear bands in metallic glasses	2013	Materials Science and Engineering R: Reports	428
14	MATE	Chitosan-based biomaterials for tissue engineering	2013	European Polymer Journal	424
15	MATE	Dynamic and post-dynamic recrystallization under hot, cold and severe plastic deformation conditions	2014	Progress in Materials Science	403
16	MATE	Biodegradable metals	2014	Materials Science and Engineering R: Reports	399

17	MATE	Efficiency of bulk-heterojunction organic solar cells	2013	Progress in Polymer Science	392
18	MATE	Highly sensitive and selective gas sensors using p-type oxide semiconductors: Overview	2014	Sensors and Actuators, B: Chemical	389
19	MATE	Bio-nanocomposites for food packaging applications	2013	Progress in Polymer Science	386
20	MATE	Recent progress in resistive random access memories: Materials, switching mechanisms, and performance	2014	Materials Science and Engineering R: Reports	359

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Mathematics

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1	MATH	Data-intensive applications, challenges, techniques and technologies: A survey on Big Data	2014	Information Sciences	482
2	MATH	A survey on optimization metaheuristics	2013	Information Sciences	292
3	MATH	A comprehensive review of firefly algorithms	2013	Swarm and Evolutionary Computation	285
4	MATH	The effects of MHD and temperature dependent viscosity on the flow of non-Newtonian nanofluid in a pipe: Analytical solutions	2013	Applied Mathematical Modelling	261
5	MATH	Reverse logistics and closed-loop supply chain: A comprehensive review to explore the future	2015	European Journal of Operational Research	260
6	MATH	A review of dynamic vehicle routing problems	2013	European Journal of Operational Research	260
7	MATH	Backtracking Search Optimization Algorithm for numerical optimization problems	2013	Applied Mathematics and Computation	249
8	MATH	Python Materials Genomics (pymatgen): A robust, open-source python library for materials analysis	2013	Computational Materials Science	246
9	MATH	Quantitative models for sustainable supply chain management: Developments and directions	2014	European Journal of Operational Research	245
10	MATH	A rapid learning algorithm for vehicle classification	2015	Information Sciences	244
11	MATH	Variable impedance actuators: A review	2013	Robotics and Autonomous Systems	243
12	MATH	On nonhomogeneous elliptic equations involving critical Sobolev exponent	2016	Annales de l'Institut Henri Poincaré (C) Analyse Non Linéaire	234
13	MATH	An insight into classification with imbalanced data: Empirical results and current trends on using data intrinsic characteristics	2013	Information Sciences	234
14	MATH	Pseudopotentials for high-throughput DFT calculations	2014	Computational Materials Science	228
15	MATH	Multiobjective cuckoo search for design optimization	2013	Computers and Operations Research	227
16	MATH	On the mechanical behaviour of titanium alloy TiAl6V4 manufactured by selective laser melting: Fatigue resistance and crack growth performance	2013	International Journal of Fatigue	227
17	MATH	Recent advances on membranes and membrane reactors for hydrogen production	2013	Chemical Engineering Science	222
18	MATH	Lyapunov functions for fractional order systems	2014	Communications in Nonlinear Science and Numerical Simulation	206
19	MATH	Security and privacy for storage and computation in cloud computing	2014	Information Sciences	198
20	MATH	Firefly algorithm with chaos	2013	Communications in Nonlinear Science and Numerical Simulation	192

Medicine

No.	Subject	Title	Year	Journal title	Cited by
1	MEDI	Global, regional, and national prevalence of overweight and obesity in children and adults during 1980-2013: A systematic analysis for the Global Burden of Disease Study 2013	2014	The Lancet	2547
2	MEDI	Cancer incidence and mortality patterns in Europe: Estimates for 40 countries in 2012	2013	European Journal of Cancer	2069
3	MEDI	2013 ACCF/AHA guideline for the management of heart failure: A report of the American college of cardiology foundation/american heart association task force on practice guidelines	2013	Journal of the American College of Cardiology	1836
4	MEDI	Nivolumab plus Ipilimumab in advanced melanoma	2013	New England Journal of Medicine	1821
5	MEDI	Primary prevention of cardiovascular disease with a Mediterranean diet	2013	New England Journal of Medicine	1786
6	MEDI	Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013	2015	The Lancet	1761
7	MEDI	Nivolumab versus docetaxel in advanced squamous-cell non-small-cell lung cancer	2015	New England Journal of Medicine	1686
8	MEDI	Crizotinib versus chemotherapy in advanced ALK-positive lung cancer	2013	New England Journal of Medicine	1616
9	MEDI	Safety and tumor responses with lambrolizumab (anti-PD-1) in melanoma	2013	New England Journal of Medicine	1604
10	MEDI	Combined nivolumab and ipilimumab or monotherapy in untreated Melanoma	2015	New England Journal of Medicine	1509
11	MEDI	A randomized trial of intraarterial treatment for acute ischemic stroke	2015	New England Journal of Medicine	1484
12	MEDI	2013 ACC/AHA guideline on the treatment of blood cholesterol to reduce atherosclerotic cardiovascular risk in adults: A report of the American college of cardiology/American heart association task force on practice guidelines	2014	Journal of the American College of Cardiology	1449
13	MEDI	Nivolumab versus docetaxel in advanced nonsquamous non-small-cell lung cancer	2015	New England Journal of Medicine	1439
14	MEDI	Increased survival in pancreatic cancer with nab-paclitaxel plus gemcitabine	2013	New England Journal of Medicine	1419
15	MEDI	PD-1 blockade in tumors with mismatch-repair deficiency	2015	New England Journal of Medicine	1404
16	MEDI	Empagliflozin, cardiovascular outcomes, and mortality in type 2 diabetes	2015	New England Journal of Medicine	1368
17	MEDI	Saxagliptin and cardiovascular outcomes in patients with type 2 diabetes mellitus	2013	New England Journal of Medicine	1368
18	MEDI	Edoxaban versus warfarin in patients with atrial fibrillation	2013	New England Journal of Medicine	1341
19	MEDI	Randomized assessment of rapid endovascular treatment of ischemic stroke	2015	New England Journal of Medicine	1325
20	MEDI	Maternal and child undernutrition and overweight in low-income and middle-income countries	2013	The Lancet	1315

Neuroscience

No.	Subject	Title	Year	Journal title	Cited by
1	NEUR	The global prevalence of dementia: A systematic review and metaanalysis	2013	Alzheimer's and Dementia	1099
2	NEUR	Deep Learning in neural networks: An overview	2015	Neural Networks	960
3	NEUR	2013 Alzheimer's disease facts and figures	2013	Alzheimer's and Dementia	706
4	NEUR	White matter integrity, fiber count, and other fallacies: The do's and don'ts of diffusion MRI	2013	NeuroImage	638
5	NEUR	2015 Alzheimer's disease facts and figures	2015	Alzheimer's and Dementia	549
6	NEUR	The WU-Minn Human Connectome Project: An overview	2013	NeuroImage	524
7	NEUR	Dynamic functional connectivity: Promise, issues, and interpretations	2013	NeuroImage	496
8	NEUR	A comprehensive assessment of regional variation in the impact of head micromovements on functional connectomics	2013	NeuroImage	423
9	NEUR	Methods to detect, characterize, and remove motion artifact in resting state fMRI	2014	NeuroImage	418
10	NEUR	Permutation inference for the general linear model	2014	NeuroImage	417
11	NEUR	Inhibition and the right inferior frontal cortex: One decade on	2014	Trends in Cognitive Sciences	403
12	NEUR	Inhibition and impulsivity: Behavioral and neural basis of response control	2013	Progress in Neurobiology	402
13	NEUR	The expected value of control: An integrative theory of anterior cingulate cortex function	2013	Neuron	400
14	NEUR	The minimal preprocessing pipelines for the Human Connectome Project	2013	NeuroImage	395
15	NEUR	Converging mechanisms in ALS and FTD: Disrupted RNA and protein homeostasis	2013	Neuron	391
16	NEUR	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS)	2014	Clinical Neurophysiology	390
17	NEUR	An improved framework for confound regression and filtering for control of motion artifact in the preprocessing of resting-state functional connectivity data	2013	NeuroImage	384
18	NEUR	Unconventional Translation of C9ORF72 GGGGCC Expansion Generates Insoluble Polypeptides Specific to c9FTD/ALS	2013	Neuron	382
19	NEUR	Network hubs in the human brain	2013	Trends in Cognitive Sciences	366
20	NEUR	Gut-brain axis: How the microbiome influences anxiety and depression	2013	Trends in Neurosciences	363

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Nursing

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1	NURS	Frailty consensus: A call to action	2013	Journal of the American Medical Directors Association	646
2	NURS	Evidence-based recommendations for optimal dietary protein intake in older people: A position paper from the PROT-AGE study group	2013	Journal of the American Medical Directors Association	373
3	NURS	Sarcopenia in Asia: Consensus report of the Asian working group for sarcopenia	2014	Journal of the American Medical Directors Association	366
4	NURS	Update of the Healthy Eating Index: HEI-2010	2013	Journal of the Academy of Nutrition and Dietetics	336

5	NURS	European Resuscitation Council Guidelines for Resuscitation 2015. Section 3. Adult advanced life support.	2015	Resuscitation	248
6	NURS	Novel insights of dietary polyphenols and obesity	2014	Journal of Nutritional Biochemistry	233
7	NURS	Proinflammatory cytokines, aging, and age-related diseases	2013	Journal of the American Medical Directors Association	233
8	NURS	Benefits of polyphenols on gut microbiota and implications in human health	2013	Journal of Nutritional Biochemistry	209
9	NURS	European Resuscitation Council Guidelines for Resuscitation 2015. Section 2. Adult basic life support and automated external defibrillation.	2015	Resuscitation	200
10	NURS	National Lipid Association recommendations for patient-centered management of dyslipidemia: Part 1 - Executive summary	2014	Journal of Clinical Lipidology	195
11	NURS	Developing and evaluating complex interventions: The new Medical Research Council guidance	2013	International Journal of Nursing Studies	190
12	NURS	Consumption Patterns of Sugar-Sweetened Beverages in the United States	2013	Journal of the Academy of Nutrition and Dietetics	186
13	NURS	Phenolics and polyphenolics in foods, beverages and spices: Antioxidant activity and health effects - A review	2015	Journal of Functional Foods	175
14	NURS	Recent advances in understanding the anti-diabetic actions of dietary flavonoids	2013	Journal of Nutritional Biochemistry	172
15	NURS	European Resuscitation Council Guidelines for Resuscitation 2015. Section 1. Executive summary	2015	Resuscitation	164
16	NURS	Diagnostic criteria for malnutrition - An ESPEN Consensus Statement	2015	Clinical Nutrition	162
17	NURS	Etiology of the Protein-Energy Wasting Syndrome in Chronic Kidney Disease: A Consensus Statement From the International Society of Renal Nutrition and Metabolism (ISRNM)	2013	Journal of Renal Nutrition	162
18	NURS	Increased oxidative stress in obesity: Implications for metabolic syndrome, diabetes, hypertension, dyslipidemia, atherosclerosis, and cancer	2013	Obesity Research and Clinical Practice	158
19	NURS	European Resuscitation Council and European Society of Intensive Care Medicine Guidelines for Post-resuscitation Care 2015. Section 5 of the European Resuscitation Council Guidelines for Resuscitation 2015.	2015	Resuscitation	157
20	NURS	The NCSBN National Simulation Study: A Longitudinal, Randomized, Controlled Study Replacing Clinical Hours with Simulation in Prelicensure Nursing Education	2014	Journal of Nursing Regulation	155

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Pharmacology, Toxicology and Pharmaceutics

No.	Subject	Title	Year	Journal title	Cited by
1	PHAR	Liposomal drug delivery systems: From concept to clinical applications	2013	Advanced Drug Delivery Reviews	1174
2	PHAR	Cancer nanotechnology: The impact of passive and active targeting in the era of modern cancer biology	2014	Advanced Drug Delivery Reviews	727
3	PHAR	The EPR effect for macromolecular drug delivery to solid tumors: Improvement of tumor uptake, lowering of systemic toxicity, and distinct tumor imaging in vivo	2013	Advanced Drug Delivery Reviews	657
4	PHAR	Cytochrome P450 enzymes in drug metabolism: Regulation of gene expression, enzyme activities, and	2013	Pharmacology and Therapeutics	595

		impact of genetic variation			
5	PHAR	A review on antioxidants, prooxidants and related controversy: Natural and synthetic compounds, screening and analysis methodologies and future perspectives	2013	Food and Chemical Toxicology	406
6	PHAR	Cisplatin in cancer therapy: Molecular mechanisms of action	2014	European Journal of Pharmacology	405
7	PHAR	Bisphenol A and human health: A review of the literature	2013	Reproductive Toxicology	399
8	PHAR	The big picture on nanomedicine: The state of investigational and approved nanomedicine products	2013	Nanomedicine: Nanotechnology, Biology, and Medicine	357
9	PHAR	Advanced materials and processing for drug delivery: The past and the future	2013	Advanced Drug Delivery Reviews	350
10	PHAR	Peptide therapeutics: Current status and future directions	2015	Drug Discovery Today	344
11	PHAR	Environmental concentrations of engineered nanomaterials: Review of modeling and analytical studies	2013	Environmental Pollution	337
12	PHAR	The Nrf2 cell defence pathway: Keap1-dependent and -independent mechanisms of regulation	2013	Biochemical Pharmacology	322
13	PHAR	Graphene-based nanomaterials for drug delivery and tissue engineering	2014	Journal of Controlled Release	314
14	PHAR	Structure and dynamics of molecular networks: A novel paradigm of drug discovery: A comprehensive review	2013	Pharmacology and Therapeutics	313
15	PHAR	Nanomedicine in cancer therapy: Challenges, opportunities, and clinical applications	2015	Journal of Controlled Release	307
16	PHAR	Ecotoxicity of manufactured ZnO nanoparticles - A review	2013	Environmental Pollution	296
17	PHAR	Silk fibroin biomaterials for tissue regenerations	2013	Advanced Drug Delivery Reviews	286
18	PHAR	The ErbB/HER family of protein-tyrosine kinases and cancer	2014	Pharmacological Research	278
19	PHAR	Cyclodextrin-based supramolecular systems for drug delivery: Recent progress and future perspective	2013	Advanced Drug Delivery Reviews	274
20	PHAR	Alzheimer disease: Epidemiology, diagnostic criteria, risk factors and biomarkers	2014	Biochemical Pharmacology	265

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1	PHYS	The HITRAN2012 molecular spectroscopic database	2013	Journal of Quantitative Spectroscopy and Radiative Transfer	1522
2	PHYS	The structure and dynamics of multilayer networks	2014	Physics Reports	660
3	PHYS	A comprehensive review on PEM water electrolysis	2013	International Journal of Hydrogen Energy	640
4	PHYS	Surface modification of inorganic nanoparticles for development of organic-inorganic nanocomposites - A review	2013	Progress in Polymer Science	556
5	PHYS	Parton distributions with LHC data	2013	Nuclear Physics B	507
6	PHYS	Nitroxide-mediated polymerization	2013	Progress in Polymer Science	489
7	PHYS	First principles phonon calculations in materials science	2015	Scripta Materialia	482
8	PHYS	Dye and its removal from aqueous solution by adsorption: A review	2014	Advances in Colloid and Interface Science	482
9	PHYS	Li-ion battery materials: Present and future	2015	Materials Today	480

10	PHYS	FeynRules 2.0 - A complete toolbox for tree-level phenomenology	2014	Computer Physics Communications	476
11	PHYS	Poly(ionic liquid)s: An update	2013	Progress in Polymer Science	440
12	PHYS	Electroactive phases of poly(vinylidene fluoride): Determination, processing and applications	2014	Progress in Polymer Science	434
13	PHYS	Adsorptive removal of dyes from aqueous solution onto carbon nanotubes: A review	2013	Advances in Colloid and Interface Science	426
14	PHYS	Chitosan-based biomaterials for tissue engineering	2013	European Polymer Journal	424
15	PHYS	Unmanned aerial systems for photogrammetry and remote sensing: A review	2014	ISPRS Journal of Photogrammetry and Remote Sensing	415
16	PHYS	The nitrogen-vacancy colour centre in diamond	2013	Physics Reports	404
17	PHYS	A review of the applications of nanofluids in solar energy	2013	International Journal of Heat and Mass Transfer	403
18	PHYS	Efficiency of bulk-heterojunction organic solar cells	2013	Progress in Polymer Science	392
19	PHYS	Highly sensitive and selective gas sensors using p-type oxide semiconductors: Overview	2014	Sensors and Actuators, B: Chemical	389
20	PHYS	Bio-nanocomposites for food packaging applications	2013	Progress in Polymer Science	386

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3	PSYC	Network hubs in the human brain	2013	Trends in Cognitive Sciences	366
4	PSYC	Mindfulness-based therapy: A comprehensive meta-analysis	2013	Clinical Psychology Review	362
5	PSYC	Detecting outliers: Do not use standard deviation around the mean, use absolute deviation around the median	2013	Journal of Experimental Social Psychology	327
6	PSYC	Trends in the parent-report of health care provider-diagnosed and medicated attention-deficit/hyperactivity disorder: United States, 2003-2011	2014	Journal of the American Academy of Child and Adolescent Psychiatry	312
7	PSYC	Human cooperation	2013	Trends in Cognitive Sciences	266
8	PSYC	A review of modeling approaches for sustainable supply chain management	2013	Decision Support Systems	264
9	PSYC	Interoceptive inference, emotion, and the embodied self	2013	Trends in Cognitive Sciences	251
10	PSYC	The ventral visual pathway: An expanded neural framework for the processing of object quality	2013	Trends in Cognitive Sciences	234
11	PSYC	Bridging animal and human models of exercise-induced brain plasticity	2013	Trends in Cognitive Sciences	233
12	PSYC	There is no coherent evidence for a bilingual advantage in executive processing	2013	Cognitive Psychology	227
13	PSYC	Maximizing exposure therapy: An inhibitory learning approach	2014	Behaviour Research and Therapy	225
14	PSYC	Separate but equal? A comparison of participants and data gathered via Amazon's MTurk, social media, and face-to-face behavioral testing	2013	Computers in Human Behavior	225
15	PSYC	Long-axis specialization of the human hippocampus	2013	Trends in Cognitive Sciences	223
16	PSYC	From the ventral to the dorsal striatum: Devolving views of their roles in drug addiction	2013	Neuroscience and Biobehavioral Reviews	207

17	PSYC	Visual working memory capacity: From psychophysics and neurobiology to individual differences	2013	Trends in Cognitive Sciences	207
18	PSYC	Frontal theta as a mechanism for cognitive control	2014	Trends in Cognitive Sciences	205
19	PSYC	Fractionating theory of mind: A meta-analysis of functional brain imaging studies	2014	Neuroscience and Biobehavioral Reviews	203
20	PSYC	Functional connectomics from resting-state fMRI	2013	Trends in Cognitive Sciences	198

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1	SOCI	Random effects structure for confirmatory hypothesis testing: Keep it maximal	2013	Journal of Memory and Language	1386
2	SOCI	Changes in the global value of ecosystem services	2014	Global Environmental Change	658
3	SOCI	A new data set of educational attainment in the world, 1950-2010	2013	Journal of Development Economics	468
4	SOCI	Unmanned aerial systems for photogrammetry and remote sensing: A review	2014	ISPRS Journal of Photogrammetry and Remote Sensing	415
5	SOCI	What are we doing here? Analyzing fifteen years of energy scholarship and proposing a social science research agenda	2014	Energy Research and Social Science	363
6	SOCI	Gamifying learning experiences: Practical implications and outcomes	2013	Computers and Education	340
7	SOCI	Detecting outliers: Do not use standard deviation around the mean, use absolute deviation around the median	2013	Journal of Experimental Social Psychology	327
8	SOCI	YAGO2: A spatially and temporally enhanced knowledge base from Wikipedia	2013	Artificial Intelligence	308
9	SOCI	Beyond the hype: Big data concepts, methods, and analytics	2015	International Journal of Information Management	268
10	SOCI	Current trends in smart city initiatives: Some stylised facts	2014	Cities	255
11	SOCI	A stratigraphic framework for abrupt climatic changes during the Last Glacial period based on three synchronized Greenland ice-core records: Refining and extending the INTIMATE event stratigraphy	2014	Quaternary Science Reviews	237
12	SOCI	Assessing, mapping, and quantifying cultural ecosystem services at community level	2013	Land Use Policy	234
13	SOCI	Current status, opportunities and challenges of augmented reality in education	2013	Computers and Education	229
14	SOCI	There is no coherent evidence for a bilingual advantage in executive processing	2013	Cognitive Psychology	227
15	SOCI	A blueprint for mapping and modelling ecosystem services	2013	Ecosystem Services	218
16	SOCI	The IPBES Conceptual Framework - connecting nature and people	2015	Current Opinion in Environmental Sustainability	217
17	SOCI	Mobile computing devices in higher education: Student perspectives on learning with cellphones, smartphones & social media	2013	Internet and Higher Education	207
18	SOCI	Dynamic adaptive policy pathways: A method for crafting robust decisions for a deeply uncertain world	2013	Global Environmental Change	205
19	SOCI	Teaching multimedia documents to LIS students	2014	Journal of Academic Librarianship	185

20	SOCI	Gamification in theory and action: A survey	2015	International Journal of Human Computer Studies	183
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1	VETE	Nanoparticle vaccines	2014	Vaccine	219
2	VETE	Understanding vaccine hesitancy around vaccines and vaccination from a global perspective: A systematic review of published literature, 2007-2012	2014	Vaccine	156
3	VETE	The test-negative design for estimating influenza vaccine effectiveness	2013	Vaccine	128
4	VETE	The case test-negative design for studies of the effectiveness of influenza vaccine	2013	Vaccine	111
5	VETE	The incidence of narcolepsy in Europe: Before, during, and after the influenza A(H1N1)pdm09 pandemic and vaccination campaigns	2013	Vaccine	108
6	VETE	The economic impacts of foot and mouth disease - What are they, how big are they and where do they occur?	2013	Preventive Veterinary Medicine	106
7	VETE	Immunogenicity and safety of a 13-valent pneumococcal conjugate vaccine compared to a 23-valent pneumococcal polysaccharide vaccine in pneumococcal vaccine-naïve adults	2013	Vaccine	100
8	VETE	Vaccines are not associated with autism: An evidence-based meta-analysis of case-control and cohort studies	2014	Vaccine	99
9	VETE	Prompt effect of replacing the 7-valent pneumococcal conjugate vaccine with the 13-valent vaccine on the epidemiology of invasive pneumococcal disease in Norway	2013	Vaccine	95
10	VETE	A systematic review of interventions for reducing parental vaccine refusal and vaccine hesitancy	2013	Vaccine	95
11	VETE	Highly pathogenic avian influenza virus (H5N8) in domestic poultry and its relationship with migratory birds in South Korea during 2014	2014	Veterinary Microbiology	94
12	VETE	Standard method for detecting upper respiratory carriage of Streptococcus pneumoniae: Updated recommendations from the World Health Organization Pneumococcal Carriage Working Group	2013	Vaccine	93
13	VETE	World Association for the Advancement of Veterinary Parasitology (W.A.A.V.P.) second edition: Guidelines for evaluating the efficacy of parasiticides for the treatment, prevention and control of flea and tick infestations on dogs and cats	2013	Veterinary Parasitology	93
14	VETE	Characterization of three H5N5 and one H5N8 highly pathogenic avian influenza viruses in China	2013	Veterinary Microbiology	90
15	VETE	Strategic priorities for respiratory syncytial virus (RSV) vaccine development	2013	Vaccine	90
16	VETE	Construction, characterization and preclinical evaluation of MTBVAC, the first live-attenuated M. tuberculosis-based vaccine to enter clinical trials	2013	Vaccine	87
17	VETE	An overview of global GBS epidemiology	2013	Vaccine	86
18	VETE	Comprehensive control of human papillomavirus infections and related diseases	2013	Vaccine	85
19	VETE	Explosive spread of a neuroinvasive lineage 2 West Nile virus in Central Europe, 2008/2009	2013	Veterinary Microbiology	85

20	VETE	Sources of pertussis infection in young infants: A review of key evidence informing targeting of the cocoon strategy	2013	Vaccine	85
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Dentistry

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1	DENT	American association of oral and maxillofacial surgeons position paper on medication-related osteonecrosis of the jaw - 2014 update	2014	Journal of Oral and Maxillofacial Surgery	370
2	DENT	Optimizing dentin bond durability: Control of collagen degradation by matrix metalloproteinases and cysteine cathepsins	2013	Dental Materials	150
3	DENT	Low etiologic fraction for high-risk human papillomavirus in oral cavity squamous cell carcinomas	2013	Oral Oncology	137
4	DENT	Progress in dimethacrylate-based dental composite technology and curing efficiency	2013	Dental Materials	130
5	DENT	Statistical methodology in oral and dental research: Pitfalls and recommendations	2013	Journal of Dentistry	122
6	DENT	Current status of zirconia restoration	2013	Journal of Prosthetic Research	118
7	DENT	Response of human dental pulp capped with biodentine and mineral trioxide aggregate	2013	Journal of Endodontics	114
8	DENT	Strategies to prevent hydrolytic degradation of the hybrid layer - A review	2013	Dental Materials	108
9	DENT	Resin-based composite performance: Are there some things we can't predict?	2013	Dental Materials	108
10	DENT	Accuracy of complete-Arch dental impressions: A new method of measuring trueness and precision	2013	Journal of Prosthetic Dentistry	96
11	DENT	Natural course of distant metastases following radiotherapy or chemoradiotherapy in HPV-related oropharyngeal cancer	2013	Oral Oncology	96
12	DENT	Epidemiology of HPV-associated oropharyngeal cancer	2014	Oral Oncology	94
13	DENT	Investigation of the hydration and bioactivity of radiopacified tricalcium silicate cement, Biodentine and MTA Angelus	2013	Dental Materials	92
14	DENT	Histological findings of revascularized/revitalized immature permanent molar with apical periodontitis using platelet-rich plasma	2013	Journal of Endodontics	88
15	DENT	Treatment options: Biological basis of regenerative endodontic procedures	2013	Journal of Endodontics	86
16	DENT	Current challenges and concepts of the thermomechanical treatment of nickel-titanium instruments	2013	Journal of Endodontics	86
17	DENT	Accuracy of a computer-aided surgical simulation protocol for orthognathic surgery: A prospective multicenter study	2013	Journal of Oral and Maxillofacial Surgery	86
18	DENT	The clinical impact of HPV tumor status upon head and neck squamous cell carcinomas	2014	Oral Oncology	84
19	DENT	Mechanical properties of polymer-infiltrated-ceramic-network materials	2013	Dental Materials	84
20	DENT	Precision of intraoral digital dental impressions with iTero and extraoral digitization with the iTero and a model scanner	2013	American Journal of Orthodontics and Dentofacial Orthopedics	82

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No.	Subject	Title	Year	Journal title	Cited by
1	HEAL	Guidelines and Good Clinical Practice Recommendations for Contrast Enhanced Ultrasound (CEUS) in the Liver - Update 2012. A WFUMB-EFSUMB Initiative in Cooperation with Representatives of AFSUMB, AIUM, ASUM, FLAUS and ICUS	2013	Ultrasound in Medicine and Biology	249
2	HEAL	Drug-DNA interactions and their study by UV-Visible, fluorescence spectroscopies and cyclic voltametry	2013	Journal of Photochemistry and Photobiology B: Biology	228
3	HEAL	Incidence, prevalence, costs, and impact on disability of common conditions requiring rehabilitation in the united states: Stroke, spinal cord injury, traumatic brain injury, multiple sclerosis, osteoarthritis, rheumatoid arthritis, limb loss, and back pain	2014	Archives of Physical Medicine and Rehabilitation	144
4	HEAL	Ultrasound elastography: Principles and techniques	2013	Diagnostic and Interventional Imaging	141
5	HEAL	Respiratory motion models: A review	2013	Medical Image Analysis	134
6	HEAL	WFUMB guidelines and recommendations for clinical use of ultrasound elastography: Part 1: Basic principles and terminology	2015	Ultrasound in Medicine and Biology	126
7	HEAL	Medical image processing on the GPU - Past, present and future	2013	Medical Image Analysis	126
8	HEAL	Effects of exercise training on fitness, mobility, fatigue, and health-related quality of life among adults with multiple sclerosis: A systematic review to inform guideline development	2013	Archives of Physical Medicine and Rehabilitation	126
9	HEAL	WFUMB guidelines and recommendations for clinical use of ultrasound elastography: Part 3: Liver	2015	Ultrasound in Medicine and Biology	122
10	HEAL	Regression forests for efficient anatomy detection and localization in computed tomography scans	2013	Medical Image Analysis	112
11	HEAL	Controllable synthesis of ZnO nanoparticles and their morphology-dependent antibacterial and optical properties	2013	Journal of Photochemistry and Photobiology B: Biology	112
12	HEAL	Human factors systems approach to healthcare quality and patient safety	2014	Applied Ergonomics	109
13	HEAL	Review of automatic segmentation methods of multiple sclerosis white matter lesions on conventional magnetic resonance imaging	2013	Medical Image Analysis	109
14	HEAL	Two action systems in the human brain	2013	Brain and Language	101
15	HEAL	STEPS: Similarity and Truth Estimation for Propagated Segmentations and its application to hippocampal segmentation and brain parcelation	2013	Medical Image Analysis	100
16	HEAL	Trainable COSFIRE filters for vessel delineation with application to retinal images	2015	Medical Image Analysis	96
17	HEAL	Light level and duration of exposure determine the impact of self-luminous tablets on melatonin suppression	2013	Applied Ergonomics	95
18	HEAL	Fundamentals of systems ergonomics/human factors	2014	Applied Ergonomics	94
19	HEAL	Validation of the Fitbit One activity monitor device during treadmill walking	2014	Journal of Science and Medicine in Sport	93
20	HEAL	Digital image forgery detection using passive techniques: A survey	2013	Digital Investigation	92

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