

# Arun H S Kumar

## List of Publications by Year in descending order

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518  
papers

16,250  
citations

14655

66  
h-index

32842

100  
g-index

535  
all docs

535  
docs citations

535  
times ranked

21374  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cadmium and lead remediation using magnetic oak wood and oak bark fast pyrolysis bio-chars. <i>Chemical Engineering Journal</i> , 2014, 236, 513-528.	12.7	446
2	A review on modeling and simulation of building energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 1272-1292.	16.4	439
3	Tunable Magnetism and Transport Properties in Nitride MXenes. <i>ACS Nano</i> , 2017, 11, 7648-7655.	14.6	276
4	A Phosphate Transporter from the Root Endophytic Fungus <i>Piriformospora indica</i> Plays a Role in Phosphate Transport to the Host Plant. <i>Journal of Biological Chemistry</i> , 2010, 285, 26532-26544.	3.4	269
5	Prediction of Enhanced Catalytic Activity for Hydrogen Evolution Reaction in Janus Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2018, 18, 3943-3949.	9.1	267
6	Pharmaceuticals, personal care products and endocrine-disrupting chemicals in U.S. surface and finished drinking waters: A proposed ranking system. <i>Science of the Total Environment</i> , 2010, 408, 5972-5989.	8.0	224
7	An RNA isolation system for plant tissues rich in secondary metabolites. <i>BMC Research Notes</i> , 2011, 4, 85.	1.4	214
8	Mutations in STIL, Encoding a Pericentriolar and Centrosomal Protein, Cause Primary Microcephaly. <i>American Journal of Human Genetics</i> , 2009, 84, 286-290.	6.2	211
9	Analysis of rectangular-core dielectric waveguides: an accurate perturbation approach. <i>Optics Letters</i> , 1983, 8, 63.	3.3	209
10	Crystal structure of a eukaryotic phosphate transporter. <i>Nature</i> , 2013, 496, 533-536.	27.8	202
11	Performance assessment and degradation analysis of solar photovoltaic technologies: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 554-587.	16.4	185
12	Confined Water: Structure, Dynamics, and Thermodynamics. <i>Accounts of Chemical Research</i> , 2017, 50, 2139-2146.	15.6	168
13	Rational Design of Two-Dimensional Metallic and Semiconducting Spintronic Materials Based on Ordered Double-Transition-Metal MXenes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 422-428.	4.6	165
14	Oxidative Stress and Endothelial Dysfunction in Aortas of Aged Spontaneously Hypertensive Rats by NOX1/2 Is Reversed by NADPH Oxidase Inhibition. <i>Hypertension</i> , 2010, 56, 490-497.	2.7	151
15	Effect of tobacco control policies on perinatal and child health: a systematic review and meta-analysis. <i>Lancet Public Health</i> , The, 2017, 2, e420-e437.	10.0	151
16	Palladacycle containing nitrogen and selenium: highly active pre-catalyst for the Suzuki-Miyaura coupling reaction and unprecedented conversion into nano-sized Pd <sub>17</sub> Se <sub>15</sub> . <i>Chemical Communications</i> , 2010, 46, 5954.	4.1	134
17	Performance assessment of different solar photovoltaic technologies under similar outdoor conditions. <i>Energy</i> , 2013, 58, 511-518.	8.8	134
18	Multicentre cluster randomised trial comparing a community group exercise programme and home-based exercise with usual care for people aged 65 years and over in primary care. <i>Health Technology Assessment</i> , 2014, 18, 1-106.	2.8	128

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19	Improving mechanical and thermal properties of TiO <sub>2</sub> -epoxy nanocomposite. <i>Composites Part B: Engineering</i> , 2016, 97, 353-360.	12.0	126
20	Surface-Engineered MXenes: Electric Field Control of Magnetism and Enhanced Magnetic Anisotropy. <i>ACS Nano</i> , 2019, 13, 2831-2839.	14.6	126
21	Organoselenium ligands in catalysis. <i>Dalton Transactions</i> , 2012, 41, 11949.	3.3	118
22	Transmission characteristics of SMS fiber optic sensor structures. <i>Optics Communications</i> , 2003, 219, 215-219.	2.1	114
23	Thermo-mechanical and anti-corrosive properties of MWCNT/epoxy nanocomposite fabricated by innovative dispersion technique. <i>Composites Part B: Engineering</i> , 2017, 113, 291-299.	12.0	114
24	Structure of sugar-bound LacY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1784-1788.	7.1	111
25	Formation and Role of Palladium Chalcogenide and Other Species in Suzuki-Miyaura and Heck Coupling Reactions Catalyzed with Palladium(II) Complexes of Organochalcogen Ligands: Realities and Speculations. <i>Organometallics</i> , 2014, 33, 2921-2943.	2.3	110
26	Fundamental Mechanisms of Solvent Decomposition Involved in Solid-Electrolyte Interphase Formation in Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2016, 28, 8930-8941.	6.7	108
27	Folic Acid and Trastuzumab Functionalized Redox Responsive Polymersomes for Intracellular Doxorubicin Delivery in Breast Cancer. <i>Biomacromolecules</i> , 2015, 16, 1736-1752.	5.4	106
28	An efficient parameters extraction technique of photovoltaic models for performance assessment. <i>Solar Energy</i> , 2017, 158, 192-206.	6.1	101
29	Tuning Noncollinear Spin Structure and Anisotropy in Ferromagnetic Nitride MXenes. <i>ACS Nano</i> , 2018, 12, 6319-6325.	14.6	101
30	Identification of genes associated with tumorigenesis of retinoblastoma by microarray analysis. <i>Genomics</i> , 2007, 90, 344-353.	2.9	100
31	Oncogenic MicroRNA-155 Down-regulates Tumor Suppressor CDC73 and Promotes Oral Squamous Cell Carcinoma Cell Proliferation. <i>Journal of Biological Chemistry</i> , 2013, 288, 608-618.	3.4	100
32	Bone Marrow-Derived Mesenchymal Stem Cells Have Innate Procoagulant Activity and Cause Microvascular Obstruction Following Intracoronary Delivery: Amelioration by Antithrombin Therapy. <i>Stem Cells</i> , 2015, 33, 2726-2737.	3.2	97
33	Novel mitochondria targeted copper complexes of ferrocenyl terpyridine and anticancer active 8-hydroxyquinolines showing remarkable cytotoxicity, DNA and protein binding affinity. <i>Dalton Transactions</i> , 2017, 46, 396-409.	3.3	97
34	Palladium(II), platinum(II), ruthenium(II) and mercury(II) complexes of potentially tridentate Schiff base ligands of (E, N, O) type (E=S, Se, Te): Synthesis, crystal structures and applications in Heck and Suzuki coupling reactions. <i>Inorganica Chimica Acta</i> , 2009, 362, 3208-3218.	2.4	96
35	Cation distribution, magnetic and hyperfine interaction studies of Ni <sup>2+</sup> -Zn spinel ferrites: role of Jahn Teller ion (Cu <sup>2+</sup> ) substitution. <i>Materials Advances</i> , 2020, 1, 880-890.	5.4	95
36	Clinical Potential of Adult Vascular Progenitor Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1080-1087.	2.4	94

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37	Genome wide DNA methylation profiling for epigenetic alteration in coronary artery disease patients. <i>Gene</i> , 2014, 541, 31-40.	2.2	94
38	Identification of Species Origin of Meat and Meat Products on the DNA Basis: A Review. <i>Critical Reviews in Food Science and Nutrition</i> , 2015, 55, 1340-1351.	10.3	94
39	Palladium(II)-selenated Schiff base complex catalyzed Suzuki-Miyaura coupling: Dependence of efficiency on alkyl chain length of ligand. <i>Dalton Transactions</i> , 2012, 41, 1931-1937.	3.3	93
40	Reduced cGMP signaling associated with neointimal proliferation and vascular dysfunction in late-stage atherosclerosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16671-16676.	7.1	92
41	Involvement of TSC genes and differential expression of other members of the mTOR signaling pathway in oral squamous cell carcinoma. <i>BMC Cancer</i> , 2008, 8, 163.	2.6	92
42	Heat and Bleach: A Cost-Efficient Method for Extracting Microplastics from Return Activated Sludge. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 73, 641-648.	4.1	90
43	Organosulphur and related ligands in Suzuki-Miyaura C-C coupling. <i>Dalton Transactions</i> , 2013, 42, 5200.	3.3	89
44	Hyperfine interaction and tuning of magnetic anisotropy of Cu doped CoFe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 411, 91-97.	2.3	85
45	Schiff bases of 1-hydroxy-2-acetonaphthone containing chalcogen functionalities and their complexes with and (p-cymene)Ru(II), Pd(II), Pt(II) and Hg(II): Synthesis, structures and applications in C-C coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 3533-3545.	1.8	84
46	Human health risk assessment of pharmaceuticals in water: An uncertainty analysis for meprobamate, carbamazepine, and phenytoin. <i>Regulatory Toxicology and Pharmacology</i> , 2010, 57, 146-156.	2.7	84
47	Thermodynamics of water entry in hydrophobic channels of carbon nanotubes. <i>Journal of Chemical Physics</i> , 2011, 134, 124105.	3.0	84
48	Organochalcogen ligands and their palladium(II) complexes: Synthesis to catalytic activity for Heck coupling. <i>RSC Advances</i> , 2012, 2, 12552.	3.6	84
49	Palladacycles of Thioethers Catalyzing Suzuki-Miyaura C-C Coupling: Generation and Catalytic Activity of Nanoparticles. <i>Organometallics</i> , 2013, 32, 2452-2458.	2.3	84
50	Effect of Gd <sup>3+</sup> substitution on structural, magnetic, dielectric and optical properties of nanocrystalline CoFe <sub>2</sub> O <sub>4</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 252-263.	2.3	83
51	Visual Degradation in Field-Aged Crystalline Silicon PV Modules in India and Correlation With Electrical Degradation. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 1470-1476.	2.5	82
52	Degradation analysis of a-Si, (HIT) hetero-junction intrinsic thin layer silicon and m-C-Si solar photovoltaic technologies under outdoor conditions. <i>Energy</i> , 2014, 72, 536-546.	8.8	81
53	Exopolysaccharide-Producing Probiotic Lactobacilli Reduce Serum Cholesterol and Modify Enteric Microbiota in ApoE-Deficient Mice. <i>Journal of Nutrition</i> , 2014, 144, 1956-1962.	2.9	80
54	In Situ Dealloying of Bulk Mg <sub>2</sub> Sn in Mg-Ion Half Cell as an Effective Route to Nanostructured Sn for High Performance Mg-Ion Battery Anodes. <i>Chemistry of Materials</i> , 2018, 30, 1815-1824.	6.7	80

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55	Engineering a thermo-stable superoxide dismutase functional at sub-zero to >50Å°C, which also tolerates autoclaving. Scientific Reports, 2012, 2, 387.	3.3	79
56	Half-Sandwich Ruthenium(II) Complexes of Click Generated 1,2,3-Triazole Based Organosulfur/-selenium Ligands: Structural and Donor Site Dependent Catalytic Oxidation and Transfer Hydrogenation Aspects. Organometallics, 2013, 32, 3595-3603.	2.3	76
57	Elastic Deformations in 2D van der waals Heterostructures and their Impact on Optoelectronic Properties: Predictions from a Multiscale Computational Approach. Scientific Reports, 2015, 5, 10872.	3.3	76
58	Cation distribution: a key to ascertain the magnetic interactions in a cobalt substituted MgÅ€Mn nanoferrite matrix. Physical Chemistry Chemical Physics, 2017, 19, 16669-16680.	2.8	76
59	Continuous measurement of suspended sediment concentration: Technological advancement and future outlook. Measurement: Journal of the International Measurement Confederation, 2015, 76, 209-227.	5.0	74
60	Defective Graphene and Graphene Allotropes as High-Capacity Anode Materials for Mg Ion Batteries. ACS Energy Letters, 2016, 1, 638-645.	17.4	73
61	Effect of apocynin on NADPH oxidase-mediated oxidative stress-LOX-1-eNOS pathway in human endothelial cells exposed to high glucose. European Journal of Pharmacology, 2010, 627, 42-48.	3.5	72
62	<i>Piriformospora indica</i> enhances plant growth by transferring phosphate. Plant Signaling and Behavior, 2011, 6, 723-725.	2.4	72
63	Systemic and Cardiac Depletion of M2 Macrophage through CSF-1R Signaling Inhibition Alters Cardiac Function Post Myocardial Infarction. PLoS ONE, 2015, 10, e0137515.	2.5	72
64	Reduced order modeling and parameter identification of a building energy system model through an optimization routine. Applied Energy, 2016, 162, 1010-1023.	10.1	71
65	ROP and ATRP Fabricated Dual Targeted Redox Sensitive Polymersomes Based on pPEGMA-PCL-ss-PCL-pPEGMA Triblock Copolymers for Breast Cancer Therapeutics. ACS Applied Materials & Interfaces, 2015, 7, 9211-9227.	8.0	70
66	Impact of Irrigation Using Water Containing CuO and ZnO Nanoparticles on Spinach oleracea Grown in Soil Media. Bulletin of Environmental Contamination and Toxicology, 2016, 97, 548-553.	2.7	70
67	Drug-eluting stents versus bare-metal stents in saphenous vein grafts: a double-blind, randomised trial. Lancet, The, 2018, 391, 1997-2007.	13.7	70
68	MWCNT/TiO2 hybrid nano filler toward high-performance epoxy composite. Ultrasonics Sonochemistry, 2018, 41, 37-46.	8.2	68
69	Progenitor Cell Therapy in a Porcine Acute Myocardial Infarction Model Induces Cardiac Hypertrophy, Mediated by Paracrine Secretion of Cardiogenic Factors Including TGFÅ²1. Stem Cells and Development, 2008, 17, 941-952.	2.1	66
70	Human Health Risk Assessment of Pharmaceuticals in Water: Issues and Challenges Ahead. International Journal of Environmental Research and Public Health, 2010, 7, 3929-3953.	2.6	65
71	Demand side management in India: Action plan, policies and regulations. Renewable and Sustainable Energy Reviews, 2014, 33, 613-624.	16.4	65
72	A homozygous mutation in LTBP2 causes isolated microspherophakia. Human Genetics, 2010, 128, 365-371.	3.8	64

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73	Antibiotic resistance development and human health risks during wastewater reuse and biosolids application in agriculture. <i>Chemosphere</i> , 2021, 265, 129032.	8.2	64
74	Functional molecular markers for crop improvement. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 917-930.	9.0	63
75	Potent endothelial progenitor cell-conditioned media-related anti-apoptotic, cardioprotective, and pro-angiogenic effects post-myocardial infarction are mediated by insulin-like growth factor-1. <i>European Heart Journal</i> , 2013, 34, 782-789.	2.2	61
76	Role of CYP1B1, MYOC, OPTN, and OPTC genes in adult-onset primary open-angle glaucoma: predominance of CYP1B1 mutations in Indian patients. <i>Molecular Vision</i> , 2007, 13, 667-76.	1.1	60
77	Palladium(ii)-(E,N,E) pincer ligand (E = S/Se/Te) complex catalyzed Suzuki coupling reactions in water via in situ generated palladium quantum dots. <i>Dalton Transactions</i> , 2013, 42, 16939.	3.3	59
78	Selenated Schiff bases of 2-hydroxyacetophenone and their palladium(II) and platinum(II) complexes: Syntheses, crystal structures and applications in the Heck reaction. <i>Polyhedron</i> , 2008, 27, 485-492.	2.2	58
79	Preventive and curative effect of edaravone on nerve functions and oxidative stress in experimental diabetic neuropathy. <i>European Journal of Pharmacology</i> , 2007, 568, 164-172.	3.5	57
80	MicroRNA-125a Reduces Proliferation and Invasion of Oral Squamous Cell Carcinoma Cells by Targeting Estrogen-related Receptor $\beta$ . <i>Journal of Biological Chemistry</i> , 2014, 289, 32276-32290.	3.4	56
81	Metabolo-transcriptome profiling of barley reveals induction of chitin elicitor receptor kinase gene (HvCERK1) conferring resistance against <i>Fusarium graminearum</i> . <i>Plant Molecular Biology</i> , 2017, 93, 247-267.	3.9	55
82	Performance analysis of a 10MWp utility scale grid-connected canal-top photovoltaic power plant under Indian climatic conditions. <i>Energy</i> , 2020, 204, 117903.	8.8	55
83	Marine vessel classification based on passive sonar data: the cepstrum-based approach. <i>IET Radar, Sonar and Navigation</i> , 2013, 7, 87-93.	1.8	54
84	Multifunctional ATRP based pH responsive polymeric nanoparticles for improved doxorubicin chemotherapy in breast cancer by proton sponge effect/endo-lysosomal escape. <i>Polymer Chemistry</i> , 2015, 6, 2115-2132.	3.9	54
85	Synthetic Chemically Modified mRNA-Based Delivery of Cytoprotective Factor Promotes Early Cardiomyocyte Survival Post-Acute Myocardial Infarction. <i>Molecular Pharmaceutics</i> , 2015, 12, 991-996.	4.6	54
86	Selective M2 Macrophage Depletion Leads to Prolonged Inflammation in Surgical Wounds. <i>European Surgical Research</i> , 2017, 58, 109-120.	1.3	54
87	Mineralization of some natural refractory organic compounds by biodegradation and ozonation. <i>Water Research</i> , 2005, 39, 1921-1933.	11.3	53
88	Anticorrosive and electromagnetic shielding response of a graphene/TiO <sub>2</sub> epoxy nanocomposite with enhanced mechanical properties. <i>RSC Advances</i> , 2016, 6, 113405-113414.	3.6	53
89	The Aurora-B-dependent NoCut checkpoint prevents damage of anaphase bridges after DNA replication stress. <i>Nature Cell Biology</i> , 2016, 18, 516-526.	10.3	53
90	Estimation of water pollution and probability of health risk due to imbalanced nutrients in River Ganga, India. <i>International Journal of River Basin Management</i> , 2017, 15, 53-60.	2.7	53

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91	Synthesis and characterization of Mg-Ag-Mn nano-ferrites for electromagnet applications. <i>Physica B: Condensed Matter</i> , 2019, 569, 1-7.	2.7	52
92	Curcumin $\alpha$ -Drug $\alpha$ -Stabilized in Oxidovanadium(IV)-BODIPY Conjugates for Mitochondria-Targeted Photocytotoxicity. <i>Inorganic Chemistry</i> , 2017, 56, 12457-12468.	4.0	51
93	Chlorination disinfection by-products and comparative cost analysis of chlorination and UV disinfection in sewage treatment plants: Indian scenario. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26269-26278.	5.3	51
94	Palladium( $\text{II}$ ) complexes bearing the 1,2,3-triazole based organosulfur/ selenium ligand: synthesis, structure and applications in Heck and Suzuki-Miyaura coupling as a catalyst via palladium nanoparticles. <i>RSC Advances</i> , 2014, 4, 56102-56111.	3.6	50
95	Irrigation of World Agricultural Lands: Evolution through the Millennia. <i>Water (Switzerland)</i> , 2020, 12, 1285.	2.7	50
96	Molecular characterization and delineation of subtle deletions in de novo $\alpha$ -balanced $\alpha$ -chromosomal rearrangements. <i>Human Genetics</i> , 1998, 103, 173-178.	3.8	49
97	AT receptors and L-type calcium channels: functional coupling in supersensitivity to angiotensin II in diabetic rats. <i>Cardiovascular Research</i> , 2005, 65, 374-386.	3.8	49
98	Limits of Coherency and Strain Transfer in Flexible 2D van der Waals Heterostructures: Formation of Strain Solitons and Interlayer Debonding. <i>Scientific Reports</i> , 2016, 6, 21516.	3.3	49
99	Bone marrow $\alpha$ -derived CX <sub>3</sub> CR1 progenitors contribute to neointimal smooth muscle cells via fractalkine CX <sub>3</sub> CR1 interaction. <i>FASEB Journal</i> , 2010, 24, 81-92.	0.5	48
100	Urea assisted synthesis of Ni <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (0 $\leq$ x $\leq$ 0.8): Magnetic and Mössbauer investigations. <i>Journal of Alloys and Compounds</i> , 2017, 704, 227-236.	5.5	48
101	Human health risk assessment of antibiotics in binary mixtures for finished drinking water. <i>Chemosphere</i> , 2020, 240, 124864.	8.2	48
102	Palladium( $\text{II}$ ) $\alpha$ -selenoether complexes as new single source precursors: First synthesis of Pd <sub>4</sub> Se and Pd <sub>7</sub> Se <sub>4</sub> nanoparticles. <i>Dalton Transactions</i> , 2012, 41, 1142-1145.	3.3	47
103	Hydro-abrasive erosion in Pelton buckets: Classification and field study. <i>Wear</i> , 2017, 392-393, 8-20.	3.1	47
104	Folic acid and trastuzumab conjugated redox responsive random multiblock copolymeric nanocarriers for breast cancer therapy: In-vitro and in-vivo studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 149, 369-378.	5.0	47
105	Preformed molecular complexes of metals with organoselenium ligands: Syntheses and applications in catalysis. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213885.	18.8	47
106	Palladium(II) complex of an organotellurium ligand as a catalyst for Suzuki Miyaura coupling: Generation and role of nano-sized Pd <sub>3</sub> Te <sub>2</sub> . <i>Journal of Organometallic Chemistry</i> , 2014, 749, 1-6.	1.8	46
107	CRISPR/Cas9: a promising way to exploit genetic variation in plants. <i>Biotechnology Letters</i> , 2016, 38, 1991-2006.	2.2	46
108	Arsenic exposure in US public and domestic drinking water supplies: A comparative risk assessment. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2010, 20, 245-254.	3.9	45

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109	Structure of LacY with an Î±-substituted galactoside: Connecting the binding site to the protonation site. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9004-9009.	7.1	45
110	Enhanced solubilization of curcumin in mixed surfactant vesicles. Food Chemistry, 2016, 199, 660-666.	8.2	45
111	Didocosyl selenide stabilized recyclable Pd(0) nanoparticles and coordinated palladium(ii) as efficient catalysts for Suzuki-Miyaura coupling. Dalton Transactions, 2012, 41, 4306.	3.3	43
112	Role of Pilus Proteins in Adherence and Invasion of Streptococcus agalactiae to the Lung and Cervical Epithelial Cells. Journal of Biological Chemistry, 2013, 288, 4023-4034.	3.4	42
113	Adsorption Studies of Cationic, Anionic and Azo-Dyes via Monodispersed Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 3240-3245.	0.9	42
114	Experimental validation of performance and degradation study of canal-top photovoltaic system. Applied Energy, 2019, 243, 102-118.	10.1	42
115	Modeling of Influenza-Specific CD8+ T Cells during the Primary Response Indicates that the Spleen Is a Major Source of Effectors. Journal of Immunology, 2011, 187, 4474-4482.	0.8	41
116	Allogeneic mesenchymal stem cells, but not culture modified monocytes, improve burn wound healing. Burns, 2015, 41, 548-557.	1.9	41
117	Initial metal contents and leaching rate constants of metals leached from end-of-life solar photovoltaic waste: An integrative literature review and analysis. Renewable and Sustainable Energy Reviews, 2020, 119, 109592.	16.4	41
118	Evaluating the promise of Trichoderma and Anabaena based biofilms as multifunctional agents in Macrophomina phaseolina-infected cotton crop. Biocontrol Science and Technology, 2015, 25, 656-670.	1.3	40
119	Heavy Metal Removal from Industrial Wastewater Using Fungi: Uptake Mechanism and Biochemical Aspects. Journal of Environmental Engineering, ASCE, 2016, 142, .	1.4	40
120	MWCNTs toward superior strength of epoxy adhesive joint on mild steel adherent. Composites Part B: Engineering, 2018, 143, 207-216.	12.0	40
121	Ecological and human health risk assessment of metals leached from end-of-life solar photovoltaics. Environmental Pollution, 2020, 267, 115393.	7.5	40
122	Molecular characterization and delineation of subtle deletions in de novo balanced chromosomal rearrangements. Human Genetics, 1998, 103, 173.	3.8	40
123	Deficiency of CX3CR1 delays burn wound healing and is associated with reduced myeloid cell recruitment and decreased sub-dermal angiogenesis. Burns, 2011, 37, 1386-1393.	1.9	39
124	Biopolymers in nanopores: challenges and opportunities. Soft Matter, 2011, 7, 5898.	2.7	39
125	Primary Microcephaly Gene MCPH1 Shows Signatures of Tumor Suppressors and Is Regulated by miR-27a in Oral Squamous Cell Carcinoma. PLoS ONE, 2013, 8, e54643.	2.5	39
126	Potent Long-Term Cardioprotective Effects of Single Low-Dose Insulin-Like Growth Factor-1 Treatment Postmyocardial Infarction. Circulation: Cardiovascular Interventions, 2011, 4, 327-335.	3.9	38



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127	Catalyst Activation with Cp*Rh <sup>III</sup> /Ir <sup>III</sup> â€“1,2,3-Triazole-Based Organochalcogen Ligand Complexes: Transfer Hydrogenation via Loss of Cp* and <i>N</i> -Methylmorpholine <i>N</i> -Oxide Based vs Oppenauer-Type Oxidation. <i>Organometallics</i> , 2014, 33, 2341-2351.	2.3	38
128	Copper-based nanoparticles in the soil-plant environment: Assessing their applications, interactions, fate and toxicity. <i>Chemosphere</i> , 2021, 281, 130940.	8.2	38
129	Organoselenium ligands for heterogeneous and nanocatalytic systems: development and applications. <i>Dalton Transactions</i> , 2021, 50, 8628-8656.	3.3	38
130	BODIPY appended copper(II) complexes for cellular imaging and singlet oxygen mediated anticancer activity in visible light. <i>RSC Advances</i> , 2016, 6, 104474-104482.	3.6	37
131	Nanofibrous artificial skin substitute composed of mPEGâ€“PCL grafted gelatin/hyaluronan/chondroitin sulfate/sericin for 2nd degree burn care: in vitro and in vivo study. <i>RSC Advances</i> , 2018, 8, 16420-16432.	3.6	36
132	Understanding effect of solution chemistry on heteroaggregation of zinc oxide and copper oxide nanoparticles. <i>Chemosphere</i> , 2019, 235, 457-469.	8.2	36
133	Effects of Biosolids and Manure Application on Microbial Water Quality in Rural Areas in the US. <i>Water (Switzerland)</i> , 2014, 6, 3701-3723.	2.7	35
134	A comparison of temperature sensing characteristics of SMS structures using step and graded index multimode fibers. <i>Optics Communications</i> , 2014, 312, 222-226.	2.1	35
135	Investigating long-term effect of nanoparticles on growth of <i>Raphanus sativus</i> plants: a trans-generational study. <i>Ecotoxicology</i> , 2018, 27, 23-31.	2.4	35
136	Genetic analysis of two Indian families affected with congenital hereditary endothelial dystrophy: two novel mutations in SLC4A11. <i>Molecular Vision</i> , 2007, 13, 39-46.	1.1	35
137	Structural, magnetic and Mössbauer studies of Nd-doped Mg-Mn ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 444, 77-86.	2.3	34
138	Metal dissolution from end-of-life solar photovoltaics in real landfill leachate versus synthetic solutions: One-year study. <i>Waste Management</i> , 2020, 114, 351-361.	7.4	34
139	Role of CX3CR1 Receptor in Monocyte/Macrophage Driven Neovascularization. <i>PLoS ONE</i> , 2013, 8, e57230.	2.5	34
140	Engineered Nanomaterials: Knowledge Gaps in Fate, Exposure, Toxicity, and Future Directions. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-16.	2.7	33
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