

Arun H S Kumar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

496 papers	11,776 citations	56 h-index	85 g-index
535 ext. papers	14,064 ext. citations	4.6 avg, IF	7.15 L-index

#	Paper	IF	Citations
496	Cadmium and lead remediation using magnetic oak wood and oak bark fast pyrolysis bio-chars. <i>Chemical Engineering Journal</i> , 2014 , 236, 513-528	14.7	348
495	A review on modeling and simulation of building energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 56, 1272-1292	16.2	314
494	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, 5972-89	10.2	200
493	Mutations in STIL, encoding a pericentriolar and centrosomal protein, cause primary microcephaly. <i>American Journal of Human Genetics</i> , 2009 , 84, 286-90	11	192
492	Tunable Magnetism and Transport Properties in Nitride MXenes. <i>ACS Nano</i> , 2017 , 11, 7648-7655	16.7	190
491	Analysis of rectangular-core dielectric waveguides: an accurate perturbation approach. <i>Optics Letters</i> , 1983 , 8, 63-5	3	181
490	Prediction of Enhanced Catalytic Activity for Hydrogen Evolution Reaction in Janus Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2018 , 18, 3943-3949	11.5	180
489	Crystal structure of a eukaryotic phosphate transporter. <i>Nature</i> , 2013 , 496, 533-6	50.4	170
488	An RNA isolation system for plant tissues rich in secondary metabolites. <i>BMC Research Notes</i> , 2011 , 4, 85	2.3	156
487	Performance assessment and degradation analysis of solar photovoltaic technologies: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 78, 554-587	16.2	132
486	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, 490-7	8.5	132
485	Palladacycle containing nitrogen and selenium: highly active pre-catalyst for the Suzuki-Miyaura coupling reaction and unprecedented conversion into nano-sized Pd ₁₇ Se ₁₅ . <i>Chemical Communications</i> , 2010 , 46, 5954-6	5.8	123
484	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	6.4	115
483	Confined Water: Structure, Dynamics, and Thermodynamics. <i>Accounts of Chemical Research</i> , 2017 , 50, 2139-2146	24.3	110
482	Performance assessment of different solar photovoltaic technologies under similar outdoor conditions. <i>Energy</i> , 2013 , 58, 511-518	7.9	103
481	Structure of sugar-bound LacY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 1784-8	11.5	101
480	Improving mechanical and thermal properties of TiO ₂ -epoxy nanocomposite. <i>Composites Part B: Engineering</i> , 2016 , 97, 353-360	10	99

479	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, vii-xxvii, 1-105	4.4	94
478	Organoselenium ligands in catalysis. <i>Dalton Transactions</i> , 2012 , 41, 11949-77	4.3	93
477	Folic Acid and Trastuzumab Functionalized Redox Responsive Polymersomes for Intracellular Doxorubicin Delivery in Breast Cancer. <i>Biomacromolecules</i> , 2015 , 16, 1736-52	6.9	92
476	Effect of tobacco control policies on perinatal and child health: a systematic review and meta-analysis. <i>Lancet Public Health, The</i> , 2017 , 2, e420-e437	22.4	91
475	Formation and Role of Palladium Chalcogenide and Other Species in Suzuki-Miyaura and Heck C-C Coupling Reactions Catalyzed with Palladium(II) Complexes of Organochalcogen Ligands: Realities and Speculations. <i>Organometallics</i> , 2014 , 33, 2921-2943	3.8	90
474	Identification of genes associated with tumorigenesis of retinoblastoma by microarray analysis. <i>Genomics</i> , 2007 , 90, 344-53	4.3	90
473	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	2.7	87
472	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, 16671-6	11.5	86
471	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	10	84
470	Transmission characteristics of SMS fiber optic sensor structures. <i>Optics Communications</i> , 2003 , 219, 215-219	2	84
469	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, 1931-7	4.3	83
468	Fundamental Mechanisms of Solvent Decomposition Involved in Solid-Electrolyte Interphase Formation in Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 8930-8941	9.6	81
467	Clinical potential of adult vascular progenitor cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 1080-7	9.4	80
466	Organosulphur and related ligands in Suzuki-Miyaura C-C coupling. <i>Dalton Transactions</i> , 2013 , 42, 5200-23	4.3	78
465	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	4.8	77
464	Schiff bases of 1?-hydroxy-2?-acetophenone 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	2.3	77
463	Oncogenic microRNA-155 down-regulates tumor suppressor CDC73 and promotes oral squamous cell carcinoma cell proliferation: implications for cancer therapeutics. <i>Journal of Biological Chemistry</i> , 2013 , 288, 608-18	5.4	76
462	Organochalcogen ligands and their palladium(II) complexes: Synthesis to catalytic activity for Heck coupling. <i>RSC Advances</i> , 2012 , 2, 12552	3.7	76

461	Surface-Engineered MXenes: Electric Field Control of Magnetism and Enhanced Magnetic Anisotropy. <i>ACS Nano</i> , 2019 , 13, 2831-2839	16.7	75
460	Palladacycles of Thioethers Catalyzing Suzuki-Miyaura C-C Coupling: Generation and Catalytic Activity of Nanoparticles. <i>Organometallics</i> , 2013 , 32, 2452-2458	3.8	74
459	Tuning Noncollinear Spin Structure and Anisotropy in Ferromagnetic Nitride MXenes. <i>ACS Nano</i> , 2018 , 12, 6319-6325	16.7	73
458	Genome wide DNA methylation profiling for epigenetic alteration in coronary artery disease patients. <i>Gene</i> , 2014 , 541, 31-40	3.8	72
457	Novel mitochondria targeted copper(II) 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	4.3	71
456	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, 2726-37	5.8	71
455	Thermodynamics of water entry in hydrophobic channels of carbon nanotubes. <i>Journal of Chemical Physics</i> , 2011 , 134, 124105	3.9	71
454	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. <i>Organometallics</i> , 2013 , 32, 3595-3603	3.8	70
453	Human health risk assessment of pharmaceuticals in water: an uncertainty analysis for meprobamate, carbamazepine, and phenytoin. <i>Regulatory Toxicology and Pharmacology</i> , 2010 , 57, 146-58	3.4	69
452	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, 1340-51	11.5	67
451	Elastic Deformations in 2D van der Waals Heterostructures and their Impact on Optoelectronic Properties: Predictions from a Multiscale Computational Approach. <i>Scientific Reports</i> , 2015 , 5, 10872	4.9	65
450	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	7.9	65
449	Effect of apocynin on NADPH oxidase-mediated oxidative stress-LOX-1-eNOS pathway in human endothelial cells exposed to high glucose. <i>European Journal of Pharmacology</i> , 2010 , 627, 42-8	5.3	65
448	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	3.2	64
447	Engineering a thermo-stable superoxide dismutase functional at sub-zero to >50°C, which also tolerates autoclaving. <i>Scientific Reports</i> , 2012 , 2, 387	4.9	61
446	In Situ Dealloying of Bulk Mg ₂ 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	9.6	60
445	Exopolysaccharide-producing probiotic Lactobacilli reduce serum cholesterol and modify enteric microbiota in ApoE-deficient mice. <i>Journal of Nutrition</i> , 2014 , 144, 1956-62	4.1	60
444	Systemic and Cardiac Depletion of M2 Macrophage through CSF-1R Signaling Inhibition Alters Cardiac Function Post Myocardial Infarction. <i>PLoS ONE</i> , 2015 , 10, e0137515	3.7	59

443	Progenitor cell therapy in a porcine acute myocardial infarction model induces cardiac hypertrophy, mediated by paracrine secretion of cardiogenic factors including TGFβ1. <i>Stem Cells and Development</i> , 2008 , 17, 941-51	4.4	58
442	ROP and ATRP Fabricated Dual Targeted Redox Sensitive Polymersomes Based on pPEGMA-PCL-ss-PCL-pPEGMA Triblock Copolymers for Breast Cancer Therapeutics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9211-27	9.5	57
441	An efficient parameters extraction technique of photovoltaic models for performance assessment. <i>Solar Energy</i> , 2017 , 158, 192-206	6.8	56
440	Reduced order modeling and parameter identification of a building energy system model through an optimization routine. <i>Applied Energy</i> , 2016 , 162, 1010-1023	10.7	55
439	Potent endothelial progenitor cell-conditioned media-related anti-apoptotic, cardiogenic, and pro-angiogenic effects post-myocardial infarction are mediated by insulin-like growth factor-1. <i>European Heart Journal</i> , 2013 , 34, 782-9	9.5	55
438	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, 16939-48	4.3	54
437	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	3.7	54
436	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	2.7	54
435	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	2.3	54
434	Human health risk assessment of pharmaceuticals in water: issues and challenges ahead. <i>International Journal of Environmental Research and Public Health</i> , 2010 , 7, 3929-53	4.6	53
433	Impact of Irrigation Using Water Containing CuO and ZnO Nanoparticles on Spinach oleracea Grown in Soil Media. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016 , 97, 548-53	2.7	53
432	Hyperfine interaction and tuning of magnetic anisotropy of Cu doped CoFe ₂ O ₄ ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 411, 91-97	2.8	52
431	Piriformospora indica enhances plant growth by transferring phosphate. <i>Plant Signaling and Behavior</i> , 2011 , 6, 723-5	2.5	52
430	A homozygous mutation in LTBP2 causes isolated microspherophakia. <i>Human Genetics</i> , 2010 , 128, 365-76	6.3	52
429	Effect of Gd ³⁺ substitution on structural, magnetic, dielectric and optical properties of nanocrystalline CoFe ₂ O ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 426, 252-263	2.8	51
428	Defective Graphene and Graphene Allotropes as High-Capacity Anode Materials for Mg Ion Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 638-645	20.1	50
427	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	4.9	50
426	MicroRNA-125a reduces proliferation and invasion of oral squamous cell carcinoma cells by targeting estrogen-related receptor β implications for cancer therapeutics. <i>Journal of Biological Chemistry</i> , 2014 , 289, 32276-32290	5.4	50

425	Mineralization of some natural refractory organic compounds by biodegradation and ozonation. <i>Water Research</i> , 2005 , 39, 1921-33	12.5	50
424	MWCNT/TiO hybrid nano filler toward high-performance epoxy composite. <i>Ultrasonics Sonochemistry</i> , 2018 , 41, 37-46	8.9	49
423	Demand side management in India: Action plan, policies and regulations. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 613-624	16.2	49
422	Molecular characterization and delineation of subtle deletions in de novo "balanced" chromosomal rearrangements. <i>Human Genetics</i> , 1998 , 103, 173-8	6.3	47
421	Continuous measurement of suspended sediment concentration: Technological advancement and future outlook. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 76, 209-227	4.6	46
420	Drug-eluting stents versus bare-metal stents in saphenous vein grafts: a double-blind, randomised trial. <i>Lancet, The</i> , 2018 , 391, 1997-2007	4.0	46
419	Functional molecular markers for crop improvement. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 917-30	9.4	45
418	Preventive and curative effect of edaravone on nerve functions and oxidative stress in experimental diabetic neuropathy. <i>European Journal of Pharmacology</i> , 2007 , 568, 164-72	5.3	44
417	AT1 receptors and L-type calcium channels: functional coupling in supersensitivity to angiotensin II in diabetic rats. <i>Cardiovascular Research</i> , 2005 , 65, 374-86	9.9	44
416	Selective M2 Macrophage Depletion Leads to Prolonged Inflammation in Surgical Wounds. <i>European Surgical Research</i> , 2017 , 58, 109-120	1.1	42
415	Curcumin "Drug" Stabilized in Oxidovanadium(IV)-BODIPY Conjugates for Mitochondria-Targeted Photocytotoxicity. <i>Inorganic Chemistry</i> , 2017 , 56, 12457-12468	5.1	41
414	Palladium(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	3.7	41
413	Anticorrosive and electromagnetic shielding response of a graphene/TiO ₂ /epoxy nanocomposite with enhanced mechanical properties. <i>RSC Advances</i> , 2016 , 6, 113405-113414	3.7	41
412	Bone marrow-derived CX3CR1 progenitors contribute to neointimal smooth muscle cells via fractalkine CX3CR1 interaction. <i>FASEB Journal</i> , 2010 , 24, 81-92	0.9	40
411	Palladium(II) complex of an organotellurium ligand as a catalyst for Suzuki Miyaura coupling: Generation and role of nano-sized Pd ₃ Te ₂ . <i>Journal of Organometallic Chemistry</i> , 2014 , 749, 1-6	2.3	39
410	Palladium(II)-selenoether complexes as new single source precursors: first synthesis of Pd ₄ Se and Pd ₇ Se ₄ nanoparticles. <i>Dalton Transactions</i> , 2012 , 41, 1142-5	4.3	39
409	Cation distribution: a key to ascertain the magnetic interactions in a cobalt substituted Mg-Mn nanoferrite matrix. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16669-16680	3.6	38
408	Synthetic chemically modified mrna-based delivery of cytoprotective factor promotes early cardiomyocyte survival post-acute myocardial infarction. <i>Molecular Pharmaceutics</i> , 2015 , 12, 991-6	5.6	38

407	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, 245-54	6.7	38
406	Molecular characterization and delineation of subtle deletions in de novo Balanced Chromosomal rearrangements. <i>Human Genetics</i> , 1998 , 103, 173	6.3	38
405	Modeling of influenza-specific CD8+ T cells during the primary response indicates that the spleen is a major source of effectors. <i>Journal of Immunology</i> , 2011 , 187, 4474-82	5.3	37
404	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	4.9	37
403	Structure of LacY with an α -Substituted galactoside: Connecting the binding site to the protonation site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9004-9	11.5	36
402	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	5.1	36
401	Didocosyl selenide stabilized recyclable Pd(0) nanoparticles and coordinated palladium(II) as efficient catalysts for Suzuki-Miyaura coupling. <i>Dalton Transactions</i> , 2012 , 41, 4306-9	4.3	36
400	Adsorption studies of cationic, anionic and azo-dyes via monodispersed Fe ₃ O ₄ nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 3240-5	1.3	36
399	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	1.7	35
398	Urea assisted synthesis of Ni _{1-x} Zn _x Fe ₂ O ₄ (0 \leq x \leq 0.8): Magnetic and Mössbauer investigations. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 227-236	5.7	35
397	Enhanced solubilization of curcumin in mixed surfactant vesicles. <i>Food Chemistry</i> , 2016 , 199, 660-6	8.5	35
396	Catalyst Activation with Cp*RhIII/IrIII, 2,3-Triazole-Based Organochalcogen Ligand Complexes: Transfer Hydrogenation via Loss of Cp* and N-Methylmorpholine N-Oxide Based vs Oppenauer-Type Oxidation. <i>Organometallics</i> , 2014 , 33, 2341-2351	3.8	35
395	Primary microcephaly gene MCPH1 shows signatures of tumor suppressors and is regulated by miR-27a in oral squamous cell carcinoma. <i>PLoS ONE</i> , 2013 , 8, e54643	3.7	35
394	Deficiency of CX3CR1 delays burn wound healing and is associated with reduced myeloid cell recruitment and decreased sub-dermal angiogenesis. <i>Burns</i> , 2011 , 37, 1386-93	2.3	35
393	The Aurora-B-dependent NoCut checkpoint prevents damage of anaphase bridges after DNA replication stress. <i>Nature Cell Biology</i> , 2016 , 18, 516-26	23.4	35
392	Allogeneic mesenchymal stem cells, but not culture modified monocytes, improve burn wound healing. <i>Burns</i> , 2015 , 41, 548-57	2.3	34
391	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	6	34
390	Marine vessel classification based on passive sonar data: the cepstrum-based approach. <i>IET Radar, Sonar and Navigation</i> , 2013 , 7, 87-93	1.4	34

- 389 Biopolymers in nanopores: challenges and opportunities. *Soft Matter*, **2011**, 7, 5898 3.6 33
- 388 Genetic analysis of two Indian families affected with congenital hereditary endothelial dystrophy: two novel mutations in SLC4A11. *Molecular Vision*, **2007**, 13, 39-46 2.3 33
- 387 CRISPR/Cas9: a promising way to exploit genetic variation in plants. *Biotechnology Letters*, **2016**, 38, 1991-2006 3.2 32
- 386 Metabolo-transcriptome profiling of barley reveals induction of chitin elicitor receptor kinase gene (HvCERK1) conferring resistance against *Fusarium graminearum*. *Plant Molecular Biology*, **2017**, 93, 247-267 4.6 32
- 385 Potent long-term cardioprotective effects of single low-dose insulin-like growth factor-1 treatment postmyocardial infarction. *Circulation: Cardiovascular Interventions*, **2011**, 4, 327-35 6 31
- 384 Cation distribution, magnetic and hyperfine interaction studies of Ni₂Zn spinel ferrites: role of Jahn Teller ion (Cu²⁺) substitution. *Materials Advances*, **2020**, 1, 880-890 3.3 30
- 383 Role of pilus proteins in adherence and invasion of *Streptococcus agalactiae* to the lung and cervical epithelial cells. *Journal of Biological Chemistry*, **2013**, 288, 4023-34 5.4 30
- 382 Role of CX3CR1 receptor in monocyte/macrophage driven neovascularization. *PLoS ONE*, **2013**, 8, e57230 3.7 30
- 381 MWCNTs toward superior strength of epoxy adhesive joint on mild steel adherent. *Composites Part B: Engineering*, **2018**, 143, 207-216 10 29
- 380 Efficient catalysis of Suzuki-Miyaura C-C coupling reactions with palladium(II) complexes of partially hydrolyzed bisimine ligands: a process important in environment context. *Journal of Hazardous Materials*, **2014**, 269, 9-17 12.8 29
- 379 Structural analysis of isoform-specific inhibitors targeting the tetrahydrobiopterin binding site of human nitric oxide synthases. *Journal of Medicinal Chemistry*, **2005**, 48, 4783-92 8.3 29
- 378 BODIPY appended copper(II) complexes for cellular imaging and singlet oxygen mediated anticancer activity in visible light. *RSC Advances*, **2016**, 6, 104474-104482 3.7 28
- 377 Engineered Nanomaterials: Knowledge Gaps in Fate, Exposure, Toxicity, and Future Directions. *Journal of Nanomaterials*, **2014**, 2014, 1-16 3.2 28
- 376 Hydro-abrasive erosion in Pelton buckets: Classification and field study. *Wear*, **2017**, 392-393, 8-20 3.5 26
- 375 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 1.7 26
- 374 Construction of an uricase nanoparticles modified au electrode for amperometric determination of uric acid. *Applied Biochemistry and Biotechnology*, **2014**, 174, 1683-1694 3.2 26
- 373 Effects of adenosine and adenosine A2A receptor agonist on motor nerve conduction velocity and nerve blood flow in experimental diabetic neuropathy. *Neurological Research*, **2005**, 27, 60-6 2.7 26
- 372 SMS fiber optic microbend sensor structures: effect of the modal interference. *Optics Communications*, **2004**, 232, 239-244 2 26

371	Whole exome sequencing identifies a novel splice-site mutation in ADAMTS17 in an Indian family with Weill-Marchesani syndrome. <i>Molecular Vision</i> , 2014 , 20, 790-6	2.3	26
370	Palladium(II)-1-phenylthio-2-arylchalcogenoethane complexes: palladium phosphide nano-peanut and ribbon formation controlled by chalcogen and Suzuki coupling activation. <i>Dalton Transactions</i> , 2015 , 44, 6600-12	4.3	25
369	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	2.9	25
368	Nanofibrous artificial skin substitute composed of mPEG-PCL grafted gelatin/hyaluronan/chondroitin sulfate/sericin for 2 degree burn care: and study.. <i>RSC Advances</i> , 2018 , 8, 16420-16432	3.7	25
367	The effect of temperature and angle of incidence on photonic band gap in a dispersive Si-based one dimensional photonic crystal. <i>Physica B: Condensed Matter</i> , 2013 , 416, 106-109	2.8	25
366	Effects of Biosolids and Manure Application on Microbial Water Quality in Rural Areas in the US. <i>Water (Switzerland)</i> , 2014 , 6, 3701-3723	3	25
365	Experimental validation of performance and degradation study of canal-top photovoltaic system. <i>Applied Energy</i> , 2019 , 243, 102-118	10.7	24
364	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	24
363	Synergetic effects of doxycycline-loaded chitosan nanoparticles for improving drug delivery and efficacy. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2411-9	7.3	24
362	Identification of genes associated with tumorigenesis of meibomian cell carcinoma by microarray analysis. <i>Genomics</i> , 2007 , 90, 559-66	4.3	24
361	Understanding effect of solution chemistry on heteroaggregation of zinc oxide and copper oxide nanoparticles. <i>Chemosphere</i> , 2019 , 235, 457-469	8.4	23
360	Synthesis and characterization of Mg-Ag-Mn nano-ferrites for electromagnet applications. <i>Physica B: Condensed Matter</i> , 2019 , 569, 1-7	2.8	23
359	Crystal Structure of a ligand-bound LacY-Nanobody Complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8769-8774	11.5	23
358	Optimization methods applied for WindBSP operation and scheduling under deregulated market: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 30, 682-700	16.2	23
357	Date Palm () Fruits as a Potential Cardioprotective Agent: The Role of Circulating Progenitor Cells. <i>Frontiers in Pharmacology</i> , 2017 , 8, 592	5.6	23
356	Drug-induced discoloration of teeth: an updated review. <i>Clinical Pediatrics</i> , 2012 , 51, 181-5	1.2	23
355	Nanoparticles in the Indian environment: known, unknowns and awareness. <i>Environmental Science & Technology</i> , 2012 , 46, 7071-2	10.3	23
354	Thrombosis, physical activity, and acute coronary syndromes. <i>Journal of Applied Physiology</i> , 2011 , 111, 599-605	3.7	23

353	Critical Wavelength in the Transmission Spectrum of SMS Fiber Structure Employing GeO ₂ -Doped Multimode Fiber. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 799-801	2.2	23
352	High glucose concentration augments angiotensin II mediated contraction via AT1 receptors in rat thoracic aorta. <i>Pharmacological Research</i> , 2004 , 50, 561-8	10.2	23
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187	Design of a thermally tunable filter using Si-based one-dimensional photonic crystal. <i>Optik</i> , 2013 , 124, 2504-2506	2.5	6
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129	Refractive Index Sensing Using Silicon-on-Insulator Waveguide Based Directional Coupler 2018 , 2, 1-4		4
128	Theoretical evaluation of metal release potential of emerging third generation solar photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 227, 111120	6.4	4
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125	Studies on Thermal and Mechanical Properties of Epoxy-Silicon Oxide Hybrid Materials. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 4440-4448	1.6	3
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115	Intraperitoneal co-administration of low dose urethane with xylazine and ketamine for extended duration of surgical anesthesia in rats. <i>Laboratory Animal Research</i> , 2015 , 31, 174-9	1.9	3
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104	Identifying Issues in Assessing Environmental Implications of Solar PVs-Related Waste. <i>Lecture Notes in Civil Engineering</i> , 2020 , 71-90	0.3	3
103	Investigation on structural and electrical properties of Fe doped ZnO nanoparticles synthesized by solution combustion method 2016 ,		3
102	. <i>IEEE Sensors Journal</i> , 2021 , 21, 4674-4681	4	3

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93	Structural, electronic and optical properties of armchair silicon nanotube of chirality (6,6) 2014 ,		2
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86	An Architecture for High Data Rate Very Low Frequency Communication. <i>Defence Science Journal</i> , 2013 , 63, 25-33	1.4	2
85	Molecular docking of natural compounds from tulsi (<i>Ocimum sanctum</i>) and neem (<i>Azadirachta indica</i>) against SARS-CoV-2 protein targets		2
84	HUMAN RISK ASSESSMENT: TOXICITY ISSUES AND CHALLENGES ASSOCIATED WITH MIXTURE OF CHEMICALS RELEASED DURING PLASTIC REUSE AND RECYCLING		2

83	Advancement in biochemical diagnostics and regenerative medicine leading to integration of dentistry into 360° health program. <i>Journal of Natural Science, Biology and Medicine</i> , 2015 , 6, 283-5	0.8	2
82	Hoping rosuvastatin for primary prevention of cardiovascular events, are all statins similar and are we ready for statinizing the globe?. <i>Journal of Natural Science, Biology and Medicine</i> , 2016 , 7, 117-8	0.8	2
81	Identifying Knowledge Gaps in Assessing Health Risks due to Exposures of Nanoparticles from Contaminated Edible Plants 2015 , 235-247		2
80	Optimal scheduling for solar wind and pumped storage systems considering imbalance penalty. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-12	1.6	2
79	Evaluation of bentonite clay in modified and unmodified forms to remove fluoride from water. <i>Water Science and Technology</i> , 2021 , 84, 2661-2674	2.2	2
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77	Setting guidelines for co-occurring nanoparticles in water medium. <i>Science of the Total Environment</i> , 2021 , 776, 145175	10.2	2
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68	Behavior of UDM processed epoxy based TiO ₂ nano filler composite adhesive joints under fatigue loading. <i>Materials Research Express</i> , 2019 , 6, 095303	1.7	1
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62	Retinitis pigmentosa: mutations in a receptor tyrosine kinase gene, MERTK. <i>Journal of Biosciences</i> , 2001 , 26, 3-5	2.3	1
61	Alzheimer's disease: amyloid beta-peptide antibody vaccine as plaque remover. <i>Journal of Biosciences</i> , 2000 , 25, 315-6	2.3	1
60	Toxicity of nanoparticles to algae-bacterial co-culture: Knowns and unknowns. <i>Algal Research</i> , 2022 , 62, 102641	5	1
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54	Understanding Interactions of Nanomaterials with Soil: Issues and Challenges Ahead. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 117-141	0.8	1
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51	Estimating seasonal variations of realistic exposure doses and risks to organs due to ambient particulate matter -bound metals of Delhi. <i>Chemosphere</i> , 2020 , 260, 127451	8.4	1
50	Optimal scheduling of variable speed pumped storage, solar and wind energy system. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-16	1.6	1
49	Day-ahead and intra-day wind power forecasting based on feedback error correction. <i>IET Renewable Power Generation</i> , 2021 , 15, 2840-2848	2.9	1
48	A Novel Selectable Islet 1 Positive Progenitor Cell Reprogrammed to Expandable and Functional Smooth Muscle Cells. <i>Stem Cells</i> , 2016 , 34, 1354-68	5.8	1

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46	Cognitive radio system with OFDM and beamforming technique for data communication 2016 ,		1
45	Stability analysis of reduced order building energy models for optimal energy control 2019 ,		1
44	Water Conservation Technologies 2019 , 11-24		1
43	Erratum for Water Quality Based Environmental Flow under Plausible Temperature and Pollution Scenarios by Shushobhit Chaudhary, C. T. Dhanya, Arun Kumar, and Rehana Shaik. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 08220001	1.8	1
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39	Phytoremediation A Sustainable Solution for Reducing Heavy Metal Contamination from the Bhalaswa Landfill Site 2018 ,		1
38	Effect of seawater acidification and plasticizer (Bisphenol-A) on aggregation of nanoparticles. <i>Environmental Research</i> , 2021 , 201, 111498	7.9	1
37	Low anorectal malformation associated with sarococcygeal teratoma. <i>Tropical Gastroenterology: Official Journal of the Digestive Diseases Foundation</i> , 2004 , 25, 101-2		1
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34	Non-intrusive speech quality estimation as combination of estimates using multiple time-scale auditory features 2017 , 70, 114-124		0
33	Identifying Knowledge Gaps in Assessing Implication of Engineered Nanomaterials on Wastewater Reuse. <i>ACS Symposium Series</i> , 2015 , 135-148	0.4	0
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28	Oncogenic role of MiR-130a in oral squamous cell carcinoma. <i>Scientific Reports</i> , 2021 , 11, 7787	4.9	o
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25	The non-canonical nuclear functions of key players of the PI3K-AKT-MTOR pathway. <i>Journal of Cellular Physiology</i> ,	7	o
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