Naresh Kumar

List of Publications by Year
in descending order

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56 papers	3,408 citations	147566 31 h-index	149479 56 g-index
59 all docs	59 docs citations	59 times ranked	5264 citing authors

#	Article	IF	Citations
1	Biomedical Importance of Indoles. Molecules, 2013, 18, 6620-6662.	1.7	927
2	Natural products â€“ antifungal agents derived from plants. Journal of Asian Natural Products Research, 2009, 11, 621-638.	0.7	244
3	Response surface methodology approach for optimization of biosorption process for removal of Cr (VI), Ni (II) and Zn (II) ions by immobilized bacterial biomass sp. Bacillus brevis. Chemical Engineering Journal, 2009, 146, 401-407.	6.6	116
4	Removal of chromium and nickel from aqueous solution in constructed wetland: Mass balance, adsorptionâ€“desorption and FTIR study. Chemical Engineering Journal, 2010, 160, 122-128.	6.6	105
5	Bacterial inactivation by plasma treated water enhanced by reactive nitrogen species. Scientific Reports, 2018, 8, 11268.	1.6	101
6	Influence of reactive species on the modification of biomolecules generated from the soft plasma. Scientific Reports, 2015, 5, 8221.	1.6	100
7	Performance assessment of aeration and radial oxygen loss assisted cathode based integrated constructed wetland-microbial fuel cell systems. Bioresource Technology, 2017, 244, 1178-1182.	4.8	99
8	Molecular Insights of Oxidation Process of Iron Nanoparticles: Spectroscopic, Magnetic, and Microscopic Evidence. Environmental Science & Technology, 2014, 48, 13888-13894.	4.6	97
9	Inhibition of sulfate reducing bacteria in aquifer sediment by iron nanoparticles. Water Research, 2014, 51, 64-72.	5.3	96
10	The removal of heavy metals in wetland microcosms: Effects of bed depth, plant species, and metal mobility. Chemical Engineering Journal, 2012, 211-212, 501-507.	6.6	88
11	The action of microsecond-pulsed plasma-activated media on the inactivation of human lung cancer cells. Journal Physics D: Applied Physics, 2016, 49, 115401.	1.3	74
12	A comparative study for the inactivation of multidrug resistance bacteria using dielectric barrier discharge and nano-second pulsed plasma. Scientific Reports, 2015, 5, 13849.	1.6	73
13	Synergistic effects of sulfate reducing bacteria and zero valent iron on zinc removal and stability in aquifer sediment. Chemical Engineering Journal, 2015, 260, 83-89.	6.6	67
14	Dielectric Barrier Discharge Plasma Efficiently Delivers an Apoptotic Response in Human Monocytic Lymphoma. Plasma Processes and Polymers, 2014, 11, 1175-1187.	1.6	65
15	Induced apoptosis in melanocytes cancer cell and oxidation in biomolecules through deuterium oxide generated from atmospheric pressure non-thermal plasma jet. Scientific Reports, 2015, 4, 7589.	1.6	65
16	Microbial Sulfate Reduction Enhances Arsenic Mobility Downstream of Zerovalent-Iron-Based Permeable Reactive Barrier. Environmental Science & Technology, 2016, 50, 7610-7617.	4.6	63
17	Triethylammonium acetate ionic liquid assisted one-pot synthesis of dihydropyrimidinones and evaluation of their antioxidant and antibacterial activities. Arabian Journal of Chemistry, 2017, 10, 206-214.	2.3	61
18	Molecular Insights into the Interaction of RONS and Thieno[3,2-c]pyran Analogs with SIRT6/COX-2: A Molecular Dynamics Study. Scientific Reports, 2018, 8, 4777.	1.6	57

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19	New arylated benzo[h]quinolines induce anti-cancer activity by oxidative stress-mediated DNA damage. Scientific Reports, 2016, 6, 38128.	1.6	54
20	Modeling and optimization of dye removal using â€œgreenâ€•clay supported iron nano-particles. Ecological Engineering, 2013, 61, 366-370.	1.6	53
21	Synergistic Effects of Melittin and Plasma Treatment: A Promising Approach for Cancer Therapy. Cancers, 2019, 11, 1109.	1.7	46
22	Cellulose nanocrystal zero-valent iron nanocomposites for groundwater remediation. Environmental Science: Nano, 2017, 4, 1294-1303.	2.2	43
23	Sulfidation mechanisms of Fe(<scp>iii</scp>)-(oxyhydr)oxide nanoparticles: a spectroscopic study. Environmental Science: Nano, 2018, 5, 1012-1026.	2.2	43
24	Assessment of potential positive effects of nZVI surface modification and concentration levels on TCE dechlorination in the presence of competing strong oxidants, using an experimental design. Science of the Total Environment, 2014, 481, 335-342.	3.9	40
25	Biogeochemical Controls on the Release and Accumulation of Mn and As in Shallow Aquifers, West Bengal, India. Frontiers in Environmental Science, 2017, 5, .	1.5	40
26	Antimonite Binding to Natural Organic Matter: Spectroscopic Evidence from a Mine Water Impacted Peatland. Environmental Science & Technology, 2019, 53, 10792-10802.	4.6	36
27	Redox Heterogeneities Promote Thioarsenate Formation and Release into Groundwater from Low Arsenic Sediments. Environmental Science & Technology, 2020, 54, 3237-3244.	4.6	36
28	Influence of plasma-activated compounds on melanogenesis and tyrosinase activity. Scientific Reports, 2016, 6, 21779.	1.6	35
29	Enhanced chromium(VI) treatment in electroactive constructed wetlands: Influence of conductive material. Journal of Hazardous Materials, 2020, 387, 121722.	6.5	35
30	Antimonite Complexation with Thiol and Carboxyl/Phenol Groups of Peat Organic Matter. Environmental Science & Technology, 2019, 53, 5005-5015.	4.6	34
31	Partitioning of uranyl between ferrihydrite and humic substances at acidic and circum-neutral pH. Geochimica Et Cosmochimica Acta, 2017, 215, 122-140.	1.6	31
32	The effect of reactive oxygen and nitrogen species on the structure of cytoglobin: A potential tumor suppressor. Redox Biology, 2018, 19, 1-10.	3.9	31
33	Influence of water vapour with non-thermal plasma jet on the apoptosis of SK-BR-3 breast cancer cells. RSC Advances, 2015, 5, 14670-14677.	1.7	30
34	In vitro and in vivo antimicrobial activities of seeds of Caesalpinia bonduc (Lin.) Roxb.. Journal of Ethnopharmacology, 2009, 123, 177-180.	2.0	29
35	Cold Atmospheric Plasma Increases Temozolomide Sensitivity of Three-Dimensional Glioblastoma Spheroids via Oxidative Stress-Mediated DNA Damage. Cancers, 2021, 13, 1780.	1.7	28
36	Inactivation of human pancreatic ductal adenocarcinoma with atmospheric plasma treated media and water: a comparative study. Journal Physics D: Applied Physics, 2018, 51, 255401.	1.3	27

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37	Microbial and mineral evolution in zero valent iron-based permeable reactive barriers during long-term operations. Environmental Science and Pollution Research, 2016, 23, 5960-5968.	2.7	26
38	Physical plasma-derived oxidants sensitize pancreatic cancer cells to ferroptotic cell death. Free Radical Biology and Medicine, 2021, 166, 187-200.	1.3	24
39	Enhanced transportability of zero valent iron nanoparticles in aquifer sediments: surface modifications, reactivity, and particle traveling distances. Environmental Science and Pollution Research, 2017, 24, 9269-9277.	2.7	22
40	Sulfur and oxygen isotope tracing in zero valent iron based In situ remediation system for metal contaminants. Chemosphere, 2013, 90, 1366-1371.	4.2	18
41	Interaction studies of carbon nanomaterials and plasma activated carbon nanomaterials solution with telomere binding protein. Scientific Reports, 2017, 7, 2636.	1.6	17
42	Enhancement of glucose uptake in skeletal muscle L6 cells and insulin secretion in pancreatic hamster-insulinoma-transfected cells by application of non-thermal plasma jet. Applied Physics Letters, 2013, 103, 203701.	1.5	13
43	Production of nitric oxide using a microwave plasma torch and its application to fungal cell differentiation. Journal Physics D: Applied Physics, 2015, 48, 195401.	1.3	13
44	Effect of nanosecond-pulsed plasma on the structural modification of biomolecules. RSC Advances, 2015, 5, 47300-47308.	1.7	13
45	FeS colloids â€“ formation and mobilization pathways in natural waters. Environmental Science: Nano, 2020, 7, 2102-2116.	2.2	13
46	Influence of Nitric Oxide generated through microwave plasma on L6 skeletal muscle cell myogenesis via oxidative signaling pathways. Scientific Reports, 2017, 7, 542.	1.6	12
47	Enhancement of cellular glucose uptake by reactive species: a promising approach for diabetes therapy. RSC Advances, 2018, 8, 9887-9894.	1.7	12
48	Remediation of fluoride contaminated water using encapsulated active growing blue-green algae, Phormidium sp.. Environmental Technology and Innovation, 2020, 19, 100855.	3.0	10
49	Molecular interactions between carbon nanotubes and ammonium ionic liquids and their catalysis properties. Materials Research Bulletin, 2014, 58, 6-9.	2.7	9
50	Modulating the Antioxidant Response for Better Oxidative Stress-Inducing Therapies: How to Take Advantage of Two Sides of the Same Medal?. Biomedicines, 2022, 10, 823.	1.4	9
51	Ligand-Induced U Mobilization from Chemogenic Uraninite and Biogenic Noncrystalline U(IV) under Anoxic Conditions. Environmental Science & Technology, 2022, 56, 6369-6379.	4.6	8
52	Influence of nanosecond pulsed plasma on the non-enzymatic pathway for the generation of nitric oxide from<scp>l</scp>-arginine and the modification of graphite oxide to increase the solar cell efficiency. Physical Chemistry Chemical Physics, 2014, 16, 18375.	1.3	7
53	Oxidative dissolution of orpiment and realgar induced by dissolved and solid Mn(III) species. Geochimica Et Cosmochimica Acta, 2022, 332, 307-326.	1.6	5
54	Effects of a Non-Thermal Atmospheric Pressure Plasma Jet with Different Gas Sources and Modes of Treatment on the Fate of Human Mesenchymal Stem Cells. Applied Sciences (Switzerland), 2019, 9, 4819.	1.3	3

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55	Reply to the Comment on â€œFeS colloids â€“ formation and mobilization pathways in natural watersâ€•by S. Peiffer, D0EN00967A. Environmental Science: Nano, 2021, 8, 1817-1821.	2.2	1
56	Call for Papers for the Environmental Redox Processes and Contaminant and Nutrient Dynamics Special Issue. ACS Earth and Space Chemistry, 2022, 6, 1688-1688.	1.2	0