

Ramesh raliya

List of Publications by Year in Descending Order

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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.

122
papers

10,961
citations

48
h-index

104
g-index

128
ext. papers

12,340
ext. citations

6.2
avg, IF

6.77
L-index

#	Paper	IF	Citations
122	Recent advances in g-C ₃ N ₄ based gas sensors for the detection of toxic and flammable gases: a review. <i>Nano Express</i> , 2022 , 3, 014003	2	2
121	Comparison of aerosol mitigation strategies and aerosol persistence in dental environments.. <i>Infection Control and Hospital Epidemiology</i> , 2022 , 1-6	2	0
120	Effect of nitrogen and zinc nanofertilizer with the organic farming practices on cereal and oil seed crops.. <i>Scientific Reports</i> , 2022 , 12, 6938	4.9	0
119	Chitosan-silicon nanofertilizer to enhance plant growth and yield in maize (<i>Zea mays</i> L.). <i>Plant Physiology and Biochemistry</i> , 2021 , 159, 53-66	5.4	31
118	Plasmonic Au Nanoparticles Sensitized MoS ₂ for Bifunctional NO ₂ and Light Sensing. <i>IEEE Sensors Journal</i> , 2021 , 21, 4190-4197	4	4
117	Room temperature gas sensing mechanism of SnO ₂ towards chloroform: Comparing first principles calculations with sensing experiments. <i>Applied Surface Science</i> , 2021 , 554, 149603	6.7	2
116	PPAR agonist fenofibrate attenuates iron-induced liver injury in mice by modulating the Sirt3 and -catenin signaling. <i>American Journal of Physiology - Renal Physiology</i> , 2021 , 321, G262-G269	5.1	4
115	Deployment of networked low-cost sensors and comparison to real-time stationary monitors in New Delhi. <i>Journal of the Air and Waste Management Association</i> , 2021 , 71, 1347-1360	2.4	2
114	Closure to Influence of Dead-End Sections of Drinking Water Distribution Networks on Optimization of Booster Chlorination Systems by Ahmed A. Abokifa, Abhilasha Maheshwari, Ravindra D. Gudi, and Pratim Biswas. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 07021016	2.8	
113	Effects of core titanium crystal dimension and crystal phase on ROS generation and tumour accumulation of transferrin coated titanium dioxide nanoaggregates. <i>RSC Advances</i> , 2020 , 10, 23759-23766	3.7	2
112	Integrating low-cost air quality sensor networks with fixed and satellite monitoring systems to study ground-level PM _{2.5} . <i>Atmospheric Environment</i> , 2020 , 223, 117293	5.3	29
111	Evaluation of Nine Low-cost-sensor-based Particulate Matter Monitors. <i>Aerosol and Air Quality Research</i> , 2020 , 20, 254-270	4.6	42
110	Chitosan nanofertilizer to foster source activity in maize. <i>International Journal of Biological Macromolecules</i> , 2020 , 145, 226-234	7.9	37
109	NO gas sensing performance enhancement based on reduced graphene oxide decorated VO thin films. <i>Nanotechnology</i> , 2019 , 30, 224001	3.4	15
108	Modeling simultaneous coagulation and charging of nanoparticles at high temperatures using the method of moments. <i>Journal of Aerosol Science</i> , 2019 , 132, 70-82	4.3	10
107	Graphene oxides as nanofillers in polysulfone ultrafiltration membranes: Shape matters. <i>Journal of Membrane Science</i> , 2019 , 581, 453-461	9.6	43
106	Electrospray Functionalization of Titanium Dioxide Nanoparticles with Transferrin for Cerenkov Radiation Induced Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1141-1147	4.1	10

105	. <i>IEEE Sensors Journal</i> , 2019 , 19, 10214-10220	4	13
104	Zinc-functionalized thymol nanoemulsion for promoting soybean yield. <i>Plant Physiology and Biochemistry</i> , 2019 , 145, 64-74	5.4	8
103	Investigating the Effects of Stove Emissions on Ocular and Cancer Cells. <i>Scientific Reports</i> , 2019 , 9, 18704.9	4.9	8
102	Single-step growth of CuInS ₂ nanospheres morphology thin films by electro spray chemical aerosol deposition technique. <i>Materials Letters</i> , 2019 , 238, 206-209	3.3	4
101	Zinc encapsulated chitosan nanoparticle to promote maize crop yield. <i>International Journal of Biological Macromolecules</i> , 2019 , 127, 126-135	7.9	78
100	Salicylic acid functionalized chitosan nanoparticle: A sustainable biostimulant for plant. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 59-69	7.9	66
99	Calcium carbonate nanoparticles stimulate tumor metabolic reprogramming and modulate tumor metastasis. <i>Nanomedicine</i> , 2019 , 14, 169-182	5.6	16
98	Design of Cerenkov Radiation-Assisted Photoactivation of TiO Nanoparticles and Reactive Oxygen Species Generation for Cancer Treatment. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 702-709	8.9	9
97	Engineered chitosan based nanomaterials: Bioactivities, mechanisms and perspectives in plant protection and growth. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 494-506	7.9	113
96	Hyaluronate coating enhances the delivery and biocompatibility of gold nanoparticles. <i>Carbohydrate Polymers</i> , 2018 , 186, 243-251	10.3	23
95	ZnO ¹⁰ /carbon dots composite hollow spheres: Facile aerosol synthesis and superior CO ₂ photoreduction under UV, visible and near-infrared irradiation. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 36-48	21.8	44
94	Electrospray deposition of biomolecules: Applications, challenges, and recommendations. <i>Journal of Aerosol Science</i> , 2018 , 125, 182-207	4.3	38
93	Thymol nanoemulsion exhibits potential antibacterial activity against bacterial pustule disease and growth promotory effect on soybean. <i>Scientific Reports</i> , 2018 , 8, 6650	4.9	58
92	Improved Sensitivity with Low Limit of Detection of a Hydrogen Gas Sensor Based on rGO-Loaded Ni-Doped ZnO Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11116-11124	9.5	92
91	Nanofertilizer for Precision and Sustainable Agriculture: Current State and Future Perspectives. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 6487-6503	5.7	236
90	ZnO Nanoparticles: Effect of Size on Bacterial Bioluminescence, Seed Germination, Algal Growth, and Gene Mutation. <i>Environmental Engineering Science</i> , 2018 , 35, 231-239	2	7
89	Optimizing the Synthesis of Red-Emissive Nitrogen-Doped Carbon Dots for Use in Bioimaging. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3682-3692	5.6	51
88	Associations between household air pollution and reduced lung function in women and children in rural southern India. <i>Journal of Applied Toxicology</i> , 2018 , 38, 1405-1415	4.1	13

87	Focused ultrasound combined with microbubble-mediated intranasal delivery of gold nanoclusters to the brain. <i>Journal of Controlled Release</i> , 2018 , 286, 145-153	11.7	45
86	High-performance photodetector based on hybrid of MoS and reduced graphene oxide. <i>Nanotechnology</i> , 2018 , 29, 404001	3.4	17
85	A simplified combustion model integrated with a particle growth dynamic model for top-lit updraft cookstoves. <i>Energy</i> , 2018 , 157, 658-668	7.9	5
84	Spatiotemporal distribution of indoor particulate matter concentration with a low-cost sensor network. <i>Building and Environment</i> , 2018 , 127, 138-147	6.5	43
83	Aerosol-synthesized siliceous nanoparticles: impact of morphology and functionalization on biodistribution. <i>International Journal of Nanomedicine</i> , 2018 , 13, 7375-7393	7.3	4
82	Sustainable one step process for making carbon-free TiO ₂ anodes and sodium-ion battery electrochemistry. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1582-1587	5.8	4
81	Crumpling of graphene oxide through evaporative confinement in nanodroplets produced by electrohydrodynamic aerosolization. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	13
80	Wood-Graphene Oxide Composite for Highly Efficient Solar Steam Generation and Desalination. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7675-7681	9.5	388
79	Mobility and Bipolar Diffusion Charging Characteristics of Crumpled Reduced Graphene Oxide Nanoparticles Synthesized in a Furnace Aerosol Reactor. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10529-10537	2.8	11
78	Electrospray-Assisted Fabrication of Moisture-Resistant and Highly Stable Perovskite Solar Cells at Ambient Conditions. <i>Advanced Energy Materials</i> , 2017 , 7, 1700210	21.8	37
77	Photocatalytic degradation of methyl orange dye by pristine titanium dioxide, zinc oxide, and graphene oxide nanostructures and their composites under visible light irradiation. <i>Applied Nanoscience (Switzerland)</i> , 2017 , 7, 253-259	3.3	89
76	An in situ grown bacterial nanocellulose/graphene oxide composite for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13976-13982	13	42
75	Graphene oxides in water: assessing stability as a function of material and natural organic matter properties. <i>Environmental Science: Nano</i> , 2017 , 4, 1484-1493	7.1	52
74	Non-invasive aerosol delivery and transport of gold nanoparticles to the brain. <i>Scientific Reports</i> , 2017 , 7, 44718	4.9	35
73	Hierarchical architecture of CuInS ₂ microsphere thin films: altering laterally aligned crystallographic plane growth by Cd and V doping. <i>CrystEngComm</i> , 2017 , 19, 6602-6611	3.3	11
72	Cu-chitosan nanoparticle boost defense responses and plant growth in maize (<i>Zea mays</i> L.). <i>Scientific Reports</i> , 2017 , 7, 9754	4.9	165
71	Comparing on-road real-time simultaneous in-cabin and outdoor particulate and gaseous concentrations for a range of ventilation scenarios. <i>Atmospheric Environment</i> , 2017 , 166, 130-141	5.3	25
70	Chitosan Metal Nanocomposites: Synthesis, Characterization, and Applications 2017 , 451-464		

69	Model based prediction of nanostructured thin film morphology in an aerosol chemical vapor deposition process. <i>Chemical Engineering Journal</i> , 2017 , 310, 102-113	14.7	9
68	Crumpled graphene oxide decorated SnO ₂ nanocolumns for the electrochemical detection of free chlorine. <i>Applied Nanoscience (Switzerland)</i> , 2017 , 7, 645-653	3.3	15
67	Optical Characterization Studies of a Low-Cost Particle Sensor. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 1691-1704	4.6	28
66	Synthesis, Characterization, and Application of Chitosan Nanomaterials Loaded with Zinc and Copper for Plant Growth and Protection 2017 , 227-247		16
65	Cu-Chitosan Nanoparticle Mediated Sustainable Approach To Enhance Seedling Growth in Maize by Mobilizing Reserved Food. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 6148-55	5.7	127
64	Bilayered Biofoam for Highly Efficient Solar Steam Generation. <i>Advanced Materials</i> , 2016 , 28, 9400-9407	24	372
63	Foams: Bilayered Biofoam for Highly Efficient Solar Steam Generation (Adv. Mater. 42/2016). <i>Advanced Materials</i> , 2016 , 28, 9234-9234	24	12
62	Graphene Oxides in Water: Correlating Morphology and Surface Chemistry with Aggregation Behavior. <i>Environmental Science & Technology</i> , 2016 , 50, 6964-73	10.3	85
61	In Situ Photocatalytic Synthesis of Ag Nanoparticles (nAg) by Crumpled Graphene Oxide Composite Membranes for Filtration and Disinfection Applications. <i>Environmental Science & Technology</i> , 2016 , 50, 2514-21	10.3	64
60	Directed assembly of the thylakoid membrane on nanostructured TiO ₂ for a photo-electrochemical cell. <i>Nanoscale</i> , 2016 , 8, 1868-72	7.7	26
59	Monodispersed calcium carbonate nanoparticles modulate local pH and inhibit tumor growth in vivo. <i>Nanoscale</i> , 2016 , 8, 12639-47	7.7	81
58	Perspective on Nanoparticle Technology for Biomedical Use. <i>Current Pharmaceutical Design</i> , 2016 , 22, 2481-90	3.3	50
57	Quantitative Understanding of Nanoparticle Uptake in Watermelon Plants. <i>Frontiers in Plant Science</i> , 2016 , 7, 1288	6.2	147
56	Nano-antacids enhance pH neutralization beyond their bulk counterparts: synthesis and characterization. <i>RSC Advances</i> , 2016 , 6, 54331-54335	3.7	8
55	Flame aerosol synthesis of nanostructured materials and functional devices: Processing, modeling, and diagnostics. <i>Progress in Energy and Combustion Science</i> , 2016 , 55, 1-59	33.6	171
54	Enhancing the Mobilization of Native Phosphorus in the Mung Bean Rhizosphere Using ZnO Nanoparticles Synthesized by Soil Fungi. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 3111-8	5.7	131
53	Biocompatibility of gold nanoparticles in retinal pigment epithelial cell line. <i>Toxicology in Vitro</i> , 2016 , 37, 61-69	3.6	46
52	A review of recent developments in graphene-enabled membranes for water treatment. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 915-922	4.2	76

51	Environmentally benign bio-inspired synthesis of Au nanoparticles, their self-assembly and agglomeration. <i>RSC Advances</i> , 2015 , 5, 42081-42087	3.7	26
50	Engineered crumpled graphene oxide nanocomposite membrane assemblies for advanced water treatment processes. <i>Environmental Science & Technology</i> , 2015 , 49, 6846-54	10.3	96
49	Laboratory Evaluation and Calibration of Three Low-Cost Particle Sensors for Particulate Matter Measurement. <i>Aerosol Science and Technology</i> , 2015 , 49, 1063-1077	3.4	217
48	Mechanistic evaluation of translocation and physiological impact of titanium dioxide and zinc oxide nanoparticles on the tomato (<i>Solanum lycopersicum</i> L.) plant. <i>Metallomics</i> , 2015 , 7, 1584-94	4.5	313
47	Linker-free deposition and adhesion of Photosystem I onto nanostructured TiO ₂ for biohybrid photoelectrochemical cells. <i>Langmuir</i> , 2015 , 31, 1675-82	4	54
46	TiO nanoparticle biosynthesis and its physiological effect on mung bean (L.). <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015 , 5, 22-26	5.3	206
45	Synthesis and in vitro antifungal efficacy of Cu-chitosan nanoparticles against pathogenic fungi of tomato. <i>International Journal of Biological Macromolecules</i> , 2015 , 75, 346-53	7.9	242
44	ZnO nanoparticles induced exopolysaccharide production by <i>B. subtilis</i> strain JCT1 for arid soil applications. <i>International Journal of Biological Macromolecules</i> , 2014 , 65, 362-8	7.9	23
43	Biosynthesis and characterization of zinc, magnesium and titanium nanoparticles: an eco-friendly approach. <i>International Nano Letters</i> , 2014 , 4, 1	5.7	74
42	Nanostructured Graphene-Titanium Dioxide Composites Synthesized by a Single-Step Aerosol Process for Photoreduction of Carbon Dioxide. <i>Environmental Engineering Science</i> , 2014 , 31, 428-434	2	24
41	One-Dimensional, Additive-Free, Single-Crystal TiO ₂ Nanostructured Anodes Synthesized by a Single-Step Aerosol Process for High-Rate Lithium-Ion Batteries. <i>Energy Technology</i> , 2014 , 2, 906-911	3.5	17
40	Facile aerosol synthesis and characterization of ternary crumpled graphene-TiO ₂ -magnetite nanocomposites for advanced water treatment. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11766-74 ⁵	9.5	78
39	Aerosolized droplet mediated self-assembly of photosynthetic pigment analogues and deposition onto substrates. <i>ACS Nano</i> , 2014 , 8, 1429-38	16.7	20
38	Development of Zinc Nanofertilizer to Enhance Crop Production in Pearl Millet (<i>Pennisetum americanum</i>). <i>Agricultural Research</i> , 2014 , 3, 257-262	1.4	199
37	Synthesis of MgO Nanoparticles Using <i>Aspergillus Tubingensis</i> TFR-3. <i>Journal of Bionanoscience</i> , 2014 , 8, 34-38		14
36	MgO Nanoparticles Biosynthesis and Its Effect on Chlorophyll Contents in the Leaves of Clusterbean (<i>Cyamopsis tetragonoloba</i> L.). <i>Advanced Science, Engineering and Medicine</i> , 2014 , 6, 538-545 ^{0.6}		31
35	Nano-materials for plant protection with special reference to Nano-chitosan 2014 ,		4
34	ZnO Nanoparticle Biosynthesis and Its Effect on Phosphorous-Mobilizing Enzyme Secretion and Gum Contents in Clusterbean (<i>Cyamopsis tetragonoloba</i> L.). <i>Agricultural Research</i> , 2013 , 2, 48-57	1.4	397

33	Nanoparticle synthesis and delivery by an aerosol route for watermelon plant foliar uptake. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	148
32	Nanotechnology: Interdisciplinary science of applications. <i>African Journal of Biotechnology</i> , 2013 , 12, 219-226	0.6	76
31	Rapid, Low-Cost, and Ecofriendly Approach for Iron Nanoparticle Synthesis Using <i>Aspergillus oryzae</i> TFR9. <i>Journal of Nanoparticles</i> , 2013 , 2013, 1-4		46
30	Green Synthesis of TiO ₂ Nanoparticle Using <i>Aspergillus tubingensis</i> . <i>Advanced Science, Engineering and Medicine</i> , 2013 , 5, 943-949	0.6	49
29	Biosynthesis of Gold Nanoparticles Using <i>Rhizoctonia Bataticola</i> TFR-6. <i>Advanced Science, Engineering and Medicine</i> , 2013 , 5, 1073-1076	0.6	5
28	Development of Microbial Nanofactory For Zinc, Magnesium, and Titanium Nanoparticles Production Using Soil Fungi. <i>Journal of Bionanoscience</i> , 2013 , 7, 590-596		20
27	Evaporation-Induced Crumpling of Graphene Oxide Nanosheets in Aerosolized Droplets: Confinement Force Relationship. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3228-33	6.4	90
26	Size and structure matter: enhanced CO ₂ photoreduction efficiency by size-resolved ultrafine Pt nanoparticles on TiO ₂ single crystals. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11276-81	16.4	613
25	Magnesium and iron nanoparticles production using microorganisms and various salts. <i>Materials Science-Poland</i> , 2012 , 30, 254-258	0.6	41
24	Characterization and deposition of various light-harvesting antenna complexes by electrospray atomization. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 2329-38	4.4	14
23	Study of the charge distribution on liposome particles aerosolized by air-jet atomization. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2012 , 25, 355-64	3.8	11
22	Novel Approach for Silver Nanoparticle Synthesis Using <i>Aspergillus terreus</i> CZR-1: Mechanism Perspective. <i>Journal of Bionanoscience</i> , 2012 , 6, 12-16		21
21	Microbial Synthesis of Phosphorous Nanoparticle from Tri-Calcium Phosphate Using <i>Aspergillus tubingensis</i> TFR-5. <i>Journal of Bionanoscience</i> , 2012 , 6, 84-89		72
20	Role of Surface Area, Primary Particle Size, and Crystal Phase on Titanium Dioxide Nanoparticle Dispersion Properties. <i>Nanoscale Research Letters</i> , 2011 , 6, 27	5	435
19	Bacterial responses to Cu-doped TiO ₂ nanoparticles. <i>Science of the Total Environment</i> , 2010 , 408, 1755-80.2	8.2	110
18	Aerosol-Chemical Vapor Deposition Method For Synthesis of Nanostructured Metal Oxide Thin Films With Controlled Morphology. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 249-253	6.4	79
17	Flame aerosol reactor synthesis of nanostructured SnO ₂ thin films: High gas-sensing properties by control of morphology. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 609-615	8.5	18
16	Characterization of size, surface charge, and agglomeration state of nanoparticle dispersions for toxicological studies. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 77-89	2.3	1199

15	A facile synthesis of highly water-soluble, core-shell organo-silica nanoparticles with controllable size via sol-gel process. <i>Journal of Colloid and Interface Science</i> , 2009 , 340, 202-8	9.3	33
14	Combined charged residue-field emission model of macromolecular electro spray ionization. <i>Analytical Chemistry</i> , 2009 , 81, 369-77	7.8	131
13	Does Nanoparticle Activity Depend upon Size and Crystal Phase?. <i>Nanotoxicology</i> , 2008 , 2, 33-42	5.3	319
12	Narrow size distribution nanoparticle production by electro spray processing of ferritin. <i>Journal of Aerosol Science</i> , 2008 , 39, 432-440	4.3	31
11	Nanostructured TiO ₂ Films with Controlled Morphology Synthesized in a Single Step Process: Performance of Dye-Sensitized Solar Cells and Photo Watersplitting. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4134-4140	3.8	133
10	Electrospray of ionic precursor solutions to synthesize iron oxide nanoparticles: Modified scaling law. <i>Chemical Engineering Science</i> , 2007 , 62, 1263-1268	4.4	96
9	Study of the mobility, surface area, and sintering behavior of agglomerates in the transition regime by tandem differential mobility analysis. <i>Journal of Nanoparticle Research</i> , 2007 , 9, 1003-1012	2.3	18
8	Synthesis of nanoparticles in a flame aerosol reactor with independent and strict control of their size, crystal phase and morphology. <i>Nanotechnology</i> , 2007 , 18, 285603	3.4	53
7	Assessing the risks of manufactured nanomaterials. <i>Environmental Science & Technology</i> , 2006 , 40, 4336-45	10.3	942
6	Hierarchical approach to model multilayer colloidal deposition in porous media. <i>Environmental Science & Technology</i> , 2005 , 39, 6361-70	10.3	10
5	Nanoparticles and the environment. <i>Journal of the Air and Waste Management Association</i> , 2005 , 55, 708-716	4.6	438
4	A Titanium Dioxide-Silica Glass Granule Packed Bed Reactor for Degradation of Airborne Organic Compounds. <i>Journal of Chemical Engineering of Japan</i> , 2004 , 37, 503-513	0.8	4
3	A Brownian Dynamics Simulation to Predict Morphology of Nanoparticle Deposits in the Presence of Interparticle Interactions. <i>Aerosol Science and Technology</i> , 2004 , 38, 541-554	3.4	44
2	Capture of Viral Particles in Soft X-Ray Enhanced Corona Systems: Charge Distribution and Transport Characteristics. <i>Aerosol Science and Technology</i> , 2004 , 38, 475-486	3.4	48
1	Multiscale simulation of irreversible deposition in presence of double layer interactions. <i>Journal of Colloid and Interface Science</i> , 2003 , 260, 36-48	9.3	19