

Beena Mathew

List of Publications by Year in descending order

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80
papers

2,503
citations

304743

22
h-index

214800

47
g-index

80
all docs

80
docs citations

80
times ranked

2794
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal oxide nanoparticles in electrochemical sensing and biosensing: a review. <i>Mikrochimica Acta</i> , 2018, 185, 358.	5.0	342
2	Microwave-assisted green synthesis of silver nanoparticles and the study on catalytic activity in the degradation of dyes. <i>Journal of Molecular Liquids</i> , 2015, 204, 184-191.	4.9	233
3	<i>Indigofera tinctoria</i> leaf extract mediated green synthesis of silver and gold nanoparticles and assessment of their anticancer, antimicrobial, antioxidant and catalytic properties. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 861-871.	2.8	182
4	Green synthesis and characterization of gold and silver nanoparticles using <i>Mussaenda glabrata</i> leaf extract and their environmental applications to dye degradation. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17347-17357.	5.3	148
5	Microwave assisted green synthesis of silver nanoparticles using leaf extract of <i>elephantopus scaber</i> and its environmental and biological applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 795-804.	2.8	141
6	Microwave assisted facile green synthesis of silver and gold nanocatalysts using the leaf extract of <i>Aerva lanata</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1371-1379.	3.9	125
7	Facile synthesis of silver nanoparticles and their application in dye degradation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 195, 90-97.	3.5	95
8	Anticancer, antimicrobial, antioxidant, and catalytic activities of green-synthesized silver and gold nanoparticles using <i>Bauhinia purpurea</i> leaf extract. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 305-319.	3.4	90
9	A brief overview of molecularly imprinted polymers: Highlighting computational design, nano and photo-responsive imprinting. <i>Talanta Open</i> , 2021, 4, 100072.	3.7	61
10	Eco-friendly synthesis of silver and gold nanoparticles with enhanced antimicrobial, antioxidant, and catalytic activities. <i>IET Nanobiotechnology</i> , 2018, 12, 850-856.	3.8	60
11	Green silver-nanoparticle-based dual sensor for toxic Hg(II) ions. <i>Nanotechnology</i> , 2018, 29, 355502.	2.6	60
12	Synthesis and characterization of multifunctional gold and silver nanoparticles using leaf extract of <i>Naregamia alata</i> and their applications in the catalysis and control of mastitis. <i>New Journal of Chemistry</i> , 2017, 41, 14288-14298.	2.8	50
13	Microwave-assisted facile synthesis of silver nanoparticles in aqueous medium and investigation of their catalytic and antibacterial activities. <i>Journal of Molecular Liquids</i> , 2014, 197, 346-352.	4.9	45
14	Ion imprinting approach for the fabrication of an electrochemical sensor and sorbent for lead ions in real samples using modified multiwalled carbon nanotubes. <i>Journal of Materials Science</i> , 2018, 53, 3557-3572.	3.7	45
15	Green synthesis of silver nanoparticles using <i>Nervalia zeylanica</i> leaf extract and evaluation of their antioxidant, catalytic, and antimicrobial potentials. <i>Particulate Science and Technology</i> , 2019, 37, 809-819.	2.1	45
16	Green silver nanoparticles as a multifunctional sensor for toxic Cd(II) ions. <i>New Journal of Chemistry</i> , 2018, 42, 15022-15031.	2.8	31
17	Green Synthesis, Characterization and Applications of Noble Metal Nanoparticles Using <i>Myxopyrum serratum</i> A. W. Hill Leaf Extract. <i>BioNanoScience</i> , 2018, 8, 105-117.	3.5	29
18	<i>In situ</i> S-doped ultrathin gC ₃ N ₄ nanosheets coupled with mixed-dimensional (3D/1D) nanostructures of silver vanadates for enhanced photocatalytic degradation of organic pollutants. <i>New Journal of Chemistry</i> , 2019, 43, 10618-10630.	2.8	29

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19	Microwave assisted green synthesis of silver nanoparticles for optical, catalytic, biological and electrochemical applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2021, 49, 438-449.	2.8	26
20	A brief overview of molecularly imprinted polymers supported on titanium dioxide matrices. <i>Materials Today Chemistry</i> , 2019, 11, 283-295.	3.5	25
21	Green synthesis of <i>Stereospermum suaveolens</i> capped silver and gold nanoparticles and assessment of their innate antioxidant, antimicrobial and antiproliferative activities. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 939-951.	3.4	23
22	Green synthesized unmodified silver nanoparticles as a multi-sensor for Cr(III) ions. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1531-1542.	2.4	23
23	Biomass-derived carbon dots as a sensitive and selective dual detection platform for fluoroquinolones and tetracyclines. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4935-4951.	3.7	23
24	Catalytic activities of green synthesized silver and gold nanoparticles. <i>Materials Today: Proceedings</i> , 2019, 9, 97-104.	1.8	22
25	CuNPs decorated molecular imprinted polymer on MWCNT for the electrochemical detection of l-DOPA. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2483-2495.	4.9	21
26	Electrochemical sensor based on nanostructured ion imprinted polymer for the sensing and extraction of Cr(III) ions from industrial wastewater. <i>Polymer International</i> , 2018, 67, 1595-1604.	3.1	20
27	Unmodified silver nanoparticles for dual detection of dithiocarbamate fungicide and rapid degradation of water pollutants. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 1739-1752.	3.5	20
28	Microwave-assisted facile green synthesis of silver nanoparticles and spectroscopic investigation of the catalytic activity. <i>Bulletin of Materials Science</i> , 2015, 38, 659-666.	1.7	19
29	Rational design and synthesis of photo-responsive molecularly imprinted polymers for the enantioselective intake and release of l-phenylalanine benzyl ester on multiwalled carbon nanotubes. <i>Polymer</i> , 2019, 173, 127-140.	3.8	19
30	Rapid sunlight-driven mineralisation of dyes and fungicide in water by novel sulphur-doped graphene oxide/Ag ₃ VO ₄ nanocomposite. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9604-9618.	5.3	19
31	S-rGO modified sulphur doped carbon nitride with mixed-dimensional hierarchical nanostructures of silver vanadate for the enhanced photocatalytic degradation of pollutants in divergent fields. <i>Applied Surface Science</i> , 2019, 495, 143478.	6.1	18
32	Bimetallic Ag@Au nanoparticles as pH dependent dual sensing probe for Mn(II) ion and ciprofloxacin. <i>Microchemical Journal</i> , 2020, 155, 104686.	4.5	18
33	A Review on Characterization Techniques for Carbon Quantum Dots and Their Applications in Agrochemical Residue Detection. <i>Journal of Fluorescence</i> , 2022, 32, 449-471.	2.5	18
34	Tailoring of nanostructured material as an electrochemical sensor and sorbent for toxic Cd(II) ions from various real samples. <i>Journal of Analytical Science and Technology</i> , 2018, 9, .	2.1	17
35	Nano layered ion imprinted polymer based electrochemical sensor and sorbent for Mn (II) ions from real samples. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020, 57, 256-265.	2.2	17
36	Kinetic and thermodynamic studies of molecularly imprinted polymers for the selective adsorption and specific enantiomeric recognition of D-mandelic acid. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	16

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37	Green Silver Nanoparticles Based Multi-Technique Sensor for Environmental Hazardous Cu(II) Ion. <i>BioNanoScience</i> , 2019, 9, 373-385.	3.5	15
38	Magnetic Fe ₃ O ₄ “reduced graphene oxide composite decorated with Ag nanoparticles as electrochemical sensor and self-cleaning material for organic pollutants. <i>Journal of Porous Materials</i> , 2020, 27, 303-318.	2.6	15
39	Cyclodextrin-mediated gold nanoparticles as multisensing probe for the selective detection of hydroxychloroquine drug. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 624-634.	2.7	15
40	Microwave assisted green synthesis of gold nanoparticles for catalytic degradation of environmental pollutants. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100525.	2.9	15
41	Green Synthesized Unmodified Silver Nanoparticles as Reproducible Dual Sensor for Mercuric Ions and Catalyst to Abate Environmental Pollutants. <i>BioNanoScience</i> , 2021, 11, 739-754.	3.5	14
42	Nitrogen-doped carbon quantum dots as a highly selective fluorescent and electrochemical sensor for tetracycline. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114060.	3.9	14
43	Novel La(OH) ₃ -integrated sGO-Ag ₃ VO ₄ /Ag nanocomposite as a heterogeneous photocatalyst for fast degradation of agricultural and industrial pollutants. <i>Catalysis Science and Technology</i> , 2020, 10, 2916-2930.	4.1	13
44	Flower-like MoS ₂ /BiFeO ₃ doped silver orthophosphate catalyst for visible-light assisted treatment of refractory organic pollutants. <i>Applied Materials Today</i> , 2020, 21, 100845.	4.3	12
45	Fabrication of zirconium ferrite doped Ag ₃ PO ₄ composite for the degradation of refractory pollutants: Visible light assisted Z-scheme insight. <i>Materials Science in Semiconductor Processing</i> , 2021, 130, 105797.	4.0	12
46	<i>Costus speciosus</i> rhizome extract mediated synthesis of silver and gold nanoparticles and their biological and catalytic properties. <i>Inorganic and Nano-Metal Chemistry</i> , 2019, 49, 249-259.	1.6	11
47	Green-synthesized Cu ₂ O nanoaggregates incorporated on β -cyclodextrin for catalytic reduction and electrochemical sensing. <i>Journal of the Iranian Chemical Society</i> , 2020, 17, 2613-2626.	2.2	11
48	Fluorescent carbon quantum dots as a novel solution and paper strip-based dual sensor for the selective detection of Cr(VI) ions. <i>Diamond and Related Materials</i> , 2022, 126, 109138.	3.9	11
49	Augmented antimicrobial, antioxidant and catalytic activities of green synthesised silver nanoparticles. <i>Materials Research Express</i> , 2018, 5, 085022.	1.6	10
50	Fabrication of a Structure-Specific Molecular Imprinted Polymer-Based Electrochemical Sensor Based on CuNP-Decorated Vinyl-Functionalized Graphene for the Detection of Parathion Methyl in Vegetable and Fruit Samples. <i>Food Analytical Methods</i> , 2019, 12, 1028-1039.	2.6	10
51	In-situ fabrication of Ag ₃ PO ₄ based binary composite for the efficient electrochemical sensing of tetracycline. <i>Materials Letters</i> , 2020, 279, 128502.	2.6	10
52	Facile synthesis of silver nanoparticles using <i>Azolla caroliniana</i> , their cytotoxicity, catalytic, optical and antibacterial activity. <i>Materials Today: Proceedings</i> , 2020, 25, 163-168.	1.8	10
53	Silver phosphate based flower-like MoS ₂ /BiFeO ₃ nanocomposite with enhanced activity for the detection of tetracycline. <i>Materials Chemistry and Physics</i> , 2021, 260, 124103.	4.0	10
54	Green synthesized metal nanoparticles as a selective inhibitor of human osteosarcoma and pathogenic microorganisms. <i>Materials Today Chemistry</i> , 2019, 13, 128-138.	3.5	8

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55	Rational design and tailoring of imprinted polymeric enantioselective sensor layered on multiwalled carbon nanotubes for the chiral recognition of d-mandelic acid. <i>Polymer Chemistry</i> , 2019, 10, 5364-5384.	3.9	8
56	Fast and efficient degradation of water pollutant dyes and fungicide by novel sulfur-doped graphene oxideâ€“modified Ag ₃ PO ₄ nanocomposite. <i>Environmental Science and Pollution Research</i> , 2021, 28, 20247-20260.	5.3	8
57	Metalâ€“Doped Titanium Dioxide for Environmental Remediation, Hydrogen Evolution and Sensing: A Review. <i>ChemistrySelect</i> , 2021, 6, 12742-12751.	1.5	8
58	Recent Progress and Future Perspectives of Carbon Dots in the Detection, Degradation, and Enhancement of Drugs. <i>Particle and Particle Systems Characterization</i> , 2022, 39, .	2.3	8
59	Microwave assisted green synthesis and characterizations of noble metal nanoparticles and their roles as catalysts in organic reduction reactions and anticancer agent. <i>Materials Research Express</i> , 2018, 5, 045032.	1.6	7
60	Simple unmodified green silver nanoparticles as fluorescent sensor for Hg(II) ions. <i>Materials Research Express</i> , 2018, 5, 085015.	1.6	7
61	Nitrogen and Sulfur Coâ€“Doped Carbon Quantum Dots for Sensing Applications: A Review. <i>ChemistrySelect</i> , 2022, 7, .	1.5	7
62	Computational Design and Fabrication of Enantioselective Recognition Sorbents for L-phenylalanine Benzyl Ester on Multiwalled Carbon Nanotubes Using Molecular Imprinting Technology. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 1305-1318.	3.8	6
63	Microwave-assisted green synthesis of <i>Cyanthillium cinereum</i> mediated gold nanoparticles: Evaluation of its antibacterial, anticancer and catalytic degradation efficacy. <i>Research on Chemical Intermediates</i> , 2022, 48, 1025-1044.	2.7	6
64	Bioremediation of Waste Water Containing Hazardous Cadmium Ion with Ion Imprinted Interpenetrating Polymer Networks. <i>Advances in Environmental Chemistry</i> , 2014, 2014, 1-10.	1.8	5
65	Structureâ€“specific sorbent based on nanostructures for selective recognition of cimetidine from its structural analogues. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	5
66	Tailoring of photo-responsive molecularly imprinted polymers on multiwalled carbon nanotube as an enantioselective sensor and sorbent for L-PABE. <i>Composites Science and Technology</i> , 2019, 181, 107676.	7.8	5
67	Rational design of Ag ₂ CO ₃ -loaded SGO heterostructure with enhanced photocatalytic abatement of organic pollutants under visible light irradiation. <i>Environmental Science and Pollution Research</i> , 2022, 29, 53225-53237.	5.3	5
68	<i>Curcuma longa</i> rhizome extract mediated unmodified silver nanoparticles as multisensing probe for Hg(II) ions. <i>Materials Research Express</i> , 2019, 6, 1150h5.	1.6	4
69	Unmodified silver nanoparticles based multisensor for Ni (II) ions in real samples. <i>International Journal of Environmental Analytical Chemistry</i> , 2019, 99, 380-395.	3.3	3
70	An electrochemical sensor and sorbent based on multiwalled carbon nanotube supported ion imprinting technique for Ni(II) ion from electroplating and steel industries. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	3
71	Novel La(OH) ₃ integrated sGO-Ag ₃ PO ₄ /Ag Hybrid photocatalyst for sunlight driven ultra-fast degradation of industrial and agricultural pollutants. <i>Materials Science in Semiconductor Processing</i> , 2022, 138, 106274.	4.0	3
72	Antibacterial, Cytotoxic, and Catalytic Potential of Aqueous <i>Amaranthus tricolor</i> â€“Mediated Green Gold Nanoparticles. <i>Plasmonics</i> , 2022, 17, 1387-1402.	3.4	3

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73	A Review on Carbon Quantum Dot Based Semiconductor Photocatalysts for the Abatement of Refractory Pollutants. ChemPhysChem, 2022, 23, .	2.1	3
74	Optimization of the properties of Mn doped ZnS quantum dots capped with thiourea. AIP Conference Proceedings, 2020, , .	0.4	2
75	Synthesis, characterization and catalytic activity of gold nanoparticles synthesized using a green route. AIP Conference Proceedings, 2020, , .	0.4	2
76	Fabrication of La ₂ O ₃ /Bi ₂ O ₃ /silver orthophosphate Heterojunction Catalyst for the Visible Light Mediated Remediation of Refractory Pollutants. Materials Research Bulletin, 2021, 140, 111299.	5.2	2
77	Unmodified Green Silver Nanoparticles as Multisensor for Zn ²⁺ and Catalyst for Environmental Remediation. ChemistrySelect, 2021, 6, 3584-3596.	1.5	1
78	Electroanalytical techniques. , 2022, , 163-175.		1
79	A novel lanthanum and bismuth based self-cleaning nanocomposite for organic pollutants. AIP Conference Proceedings, 2020, , .	0.4	0
80	Green Synthesized Carbon-Based Nanomaterials: Applications and Future Developments. , 2021, , 135-165.		0