

Sekar Karthikeyan

List of Publications by Year in descending order

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75
papers

4,326
citations

147566

31
h-index

106150

65
g-index

75
all docs

75
docs citations

75
times ranked

5354
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization, and application of MOF@clay composite as a visible light-driven photocatalyst for Rhodamine B degradation. <i>Chemosphere</i> , 2022, 291, 132922.	4.2	20
2	Hierarchical TiO ₂ spheroids decorated g-C ₃ N ₄ nanocomposite for solar driven hydrogen production and water depollution. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3709-3721.	3.8	21
3	Fabrication of Hydrotalcite-like Copper Hydroxyl Salts as a Photocatalyst and Adsorbent for Hexavalent Chromium Removal. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 182.	0.8	4
4	Fabrication of BiVO ₄ / reduced graphene oxide photocatlyst for hexavalent chromium reduction under visible region. <i>Materials Today: Proceedings</i> , 2022, 50, 400-405.	0.9	1
5	Zinc chloride promoted the inimitable dissolution and degradation of polyethylene in a deep eutectic solvent under white light. <i>Green Chemistry</i> , 2022, 24, 2953-2961.	4.6	4
6	Fabrication of graphitic carbon nitride/ZnTi-mixed metal oxide heterostructure: Robust photocatalytic decomposition of ciprofloxacin. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164294.	2.8	19
7	Enhanced photocatalytic reduction of hexavalent chromium ions over Zn-bearing in CuZn hydroxy double salts: Insight into the structural investigation using extended X-ray absorption fine structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 645, 128893.	2.3	6
8	Recent development on core-shell photo(electro)catalysts for elimination of organic compounds from pharmaceutical wastewater. <i>Chemosphere</i> , 2022, 298, 134311.	4.2	21
9	Recent development of organicâ€“inorganic hybrid photocatalysts for biomass conversion into hydrogen production. <i>Nanoscale Advances</i> , 2022, 4, 2561-2582.	2.2	24
10	A Critical Study of Cu ₂ O: Synthesis and Its Application in CO ₂ Reduction by Photochemical and Electrochemical Approaches. <i>Catalysts</i> , 2022, 12, 445.	1.6	11
11	Determination of the roles of FeIII in the interface between titanium dioxide and montmorillonite in FeIII-doped montmorillonite/titanium dioxide composites as photocatalysts. <i>Applied Clay Science</i> , 2022, 227, 106577.	2.6	4
12	Sulfonated poly(ether ether ketone): efficient ion-exchange polymer electrolytes for fuel cell applicationsâ€“a versatile review. <i>Materials Advances</i> , 2022, 3, 6085-6095.	2.6	13
13	Single-step synthesis of efficient nanometric boron carbon nitride semiconductor for photocatalysis. <i>Materials Research Bulletin</i> , 2021, 134, 111106.	2.7	17
14	Surfactant- and template-free hydrothermal assembly of Cu ₂ O visible light photocatalysts for trimethoprim degradation. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119741.	10.8	60
15	Synergistic ternary porous CNâ€“PPyâ€“MMt nanocomposite for efficient photocatalytic metronidazole mineralization: performance, mechanism, and pathways. <i>Environmental Science: Nano</i> , 2021, 8, 2261-2276.	2.2	16
16	Hierarchical bismuth vanadate/reduced graphene oxide composite photocatalyst for hydrogen evolution and bisphenol A degradation. <i>Applied Materials Today</i> , 2021, 22, 100963.	2.3	23
17	A promising Zn-Ti layered double hydroxide/Fe-bearing montmorillonite composite as an efficient photocatalyst for Cr(VI) reduction: Insight into the role of Fe impurity in montmorillonite. <i>Applied Surface Science</i> , 2021, 546, 148835.	3.1	30
18	Sustainable preparation and enhanced photocatalytic activity of Ag/AgBr@G nanocomposite for degradation of water pollutants under visible light. <i>Applied Surface Science</i> , 2021, 553, 149555.	3.1	20

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19	CuO-ZnO-PANI a lethal p-n-p combination in degradation of 4-chlorophenol under visible light. Journal of Hazardous Materials, 2021, 416, 125989.	6.5	14
20	Cubic Cu ₂ O nanoparticles decorated on TiO ₂ nanofiber heterostructure as an excellent synergistic photocatalyst for H ₂ production and sulfamethoxazole degradation. Applied Catalysis B: Environmental, 2021, 294, 120221.	10.8	79
21	Fabrication and characterization of carbon quantum dots decorated hollow porous graphitic carbon nitride through polyaniline for photocatalysis. Chemical Engineering Journal, 2021, 426, 131739.	6.6	44
22	Single-step synthesis of oxygen-doped hollow porous graphitic carbon nitride for photocatalytic ciprofloxacin decomposition. Chemical Engineering Journal, 2021, 425, 130502.	6.6	41
23	A simple tactic synthesis of hollow porous graphitic carbon nitride with significantly enhanced photocatalytic performance. Chemical Communications, 2021, 57, 6772-6775.	2.2	19
24	Pompon Dahlia-like Cu ₂ O/rGO Nanostructures for Visible Light Photocatalytic H ₂ Production and 4-Chlorophenol Degradation. ChemCatChem, 2020, 12, 1699-1709.	1.8	34
25	One-pot sustainable preparation of sunlight active ZnS@graphene nano-composites using a Zn containing surface active ionic liquid. Nanoscale Advances, 2020, 2, 4770-4776.	2.2	3
26	In situ preparation of a nanocomposite comprising graphene and \pm -Fe ₂ O ₃ nanospindles for the photo-degradation of antibiotics under visible light. New Journal of Chemistry, 2020, 44, 15567-15573.	1.4	3
27	Fabrication and characterization of ternary sepiolite/g-C ₃ N ₄ /Pd composites for improvement of photocatalytic degradation of ciprofloxacin under visible light irradiation. Journal of Colloid and Interface Science, 2020, 577, 397-405.	5.0	58
28	Cobalt promoted bifunctional graphene composite (Co@pGSC) for heterogeneous peroxydisulfate activation. Chemical Engineering Journal, 2020, 399, 125752.	6.6	11
29	Energy-resolved distribution of electron traps for O/S-doped carbon nitrides by reversed double-beam photoacoustic spectroscopy and the photocatalytic reduction of Cr(VI). Chemical Communications, 2020, 56, 3793-3796.	2.2	28
30	Importance of ZnTiO ₃ Phase in ZnTi-Mixed Metal Oxide Photocatalysts Derived from Layered Double Hydroxide. ACS Applied Materials & Interfaces, 2020, 12, 9169-9180.	4.0	41
31	Nanoscale materials with different dimensions for advanced electrocatalysts. , 2020, , 193-218.		0
32	Template free mild hydrothermal synthesis of core-shell Cu ₂ O(Cu)@CuO visible light photocatalysts for <i>N</i> -acetyl- <i>p</i> -aminophenol degradation. Journal of Materials Chemistry A, 2019, 7, 20767-20777.	5.2	46
33	Facile green synthesis and antimicrobial performance of Cu ₂ O nanospheres decorated g-C ₃ N ₄ nanocomposite. Materials Research Bulletin, 2019, 112, 331-335.	2.7	26
34	Crumpled sheet like graphene based WO ₃ -Fe ₂ O ₃ nanocomposites for enhanced charge transfer and solar photocatalysts for environmental remediation. Applied Surface Science, 2019, 470, 114-128.	3.1	45
35	Delaminated CoAl-Layered Double Hydroxide@TiO ₂ Heterojunction Nanocomposites for Photocatalytic Reduction of CO ₂ . Particle and Particle Systems Characterization, 2018, 35, 1700317.	1.2	40
36	Arachis hypogaea derived activated carbon/Pt catalyst: Reduction of organic dyes. Surfaces and Interfaces, 2018, 13, 101-111.	1.5	18

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37	g-C ₃ N ₄ -Based Nanomaterials for Visible Light-Driven Photocatalysis. <i>Catalysts</i> , 2018, 8, 74.	1.6	188
38	A porous activated carbon supported Pt catalyst for the oxidative degradation of poly[(naphthaleneformaldehyde)sulfonate]. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 289-297.	2.7	7
39	Boron carbonitride sheet/ Cu ₂ O composite for an efficient photocatalytic hydrogen evolution. <i>Materials Chemistry and Physics</i> , 2018, 219, 204-211.	2.0	9
40	Size-Dependent Visible Light Photocatalytic Performance of Cu ₂ O Nanocubes. <i>ChemCatChem</i> , 2018, 10, 3554-3563.	1.8	44
41	Functioned silver nanoparticle loaded activated carbon for the recovery of bioactive molecule from bacterial fermenter for its bactericidal activity. <i>Applied Surface Science</i> , 2018, 427, 813-824.	3.1	9
42	Multi-functional properties of ternary CeO ₂ /SnO ₂ /rGO nanocomposites: Visible light driven photocatalyst and heavy metal removal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 32-45.	2.0	109
43	NiO/nanoporous carbon heterogeneous Fenton catalyst for aqueous microcystine-LR decomposition. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 74, 289-295.	2.7	11
44	Cobalt promoted TiO ₂ /GO for the photocatalytic degradation of oxytetracycline and Congo Red. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 159-168.	10.8	298
45	Fenton-like degradation of Bisphenol A catalyzed by mesoporous Cu/TUD-1. <i>Applied Surface Science</i> , 2017, 393, 67-73.	3.1	63
46	Cu and Fe oxides dispersed on SBA-15: A Fenton type bimetallic catalyst for N,N -diethyl- p -phenyl diamine degradation. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 323-330.	10.8	119
47	Advanced oxidation of catechol in reverse osmosis concentrate generated in leather wastewater by Cu-graphite electrode. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 2143-2152.	1.8	12
48	Simultaneous removal of NH ₄ ⁺ -N and refractory organics through sequential heterogeneous Fenton oxidation process and struvite precipitation: kinetic study. <i>RSC Advances</i> , 2016, 6, 4250-4261.	1.7	17
49	Hydroxyl radical generation by cactus-like copper oxide nanoporous carbon catalysts for microcystin-LR environmental remediation. <i>Catalysis Science and Technology</i> , 2016, 6, 530-544.	2.1	58
50	In situ generation of hydroxyl radical by cobalt oxide supported porous carbon enhance removal of refractory organics in tannery dyeing wastewater. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 163-174.	5.0	73
51	Fenton-type Oxidative Degradation of N,N-Diethyl-p-phenylenediamine by a Mesoporous Wormhole Structured FeTUD-1 Catalyst. <i>Clean - Soil, Air, Water</i> , 2015, 43, 375-381.	0.7	6
52	Three dimensional electro catalytic oxidation of aniline by boron doped mesoporous activated carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 942-950.	2.9	48
53	Synthesis of reactive iron impregnated nanoporous activated carbon and its application in anaerobic biological treatment to enhance biodegradability of ortho-phenylenediamine. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1013-1026.	1.6	13
54	Response surface modeling for optimization heterocatalytic Fenton oxidation of persistence organic pollution in high total dissolved solid containing wastewater. <i>Environmental Science and Pollution Research</i> , 2014, 21, 1489-1502.	2.7	26

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55	Process optimization for the treatment of pharmaceutical wastewater catalyzed by poly sulphha sponge. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1739-1747.	2.7	45
56	Controlled synthesis and characterization of electron rich iron (<sc>iii</sc>) oxide doped nanoporous activated carbon for the catalytic oxidation of aqueous ortho phenylene diamine. <i>RSC Advances</i> , 2014, 4, 19183-19195.	1.7	48
57	Synthesis and characterization of Co-NPAC and in situ hydroxyl radical generation for the oxidation of dye laden wastewater from the leather industry. <i>RSC Advances</i> , 2014, 4, 63354-63366.	1.7	14
58	In situ generation of a hydroxyl radical by nanoporous activated carbon derived from rice husk for environmental applications: kinetic and thermodynamic constants. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3924.	1.3	41
59	The birefringence spectroscopic studies on ferroelectric glycine phosphite (GPI) single crystals. <i>Materials Science-Poland</i> , 2013, 31, 1-5.	0.4	15
60	Characterization of iron impregnated polyacrylamide catalyst and its application to the treatment of municipal wastewater. <i>RSC Advances</i> , 2013, 3, 15044.	1.7	48
61	Nanoporous activated carbon fluidized bed catalytic oxidations of aqueous o, p and m-cresols: kinetic and thermodynamic studies. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4790-4806.	2.7	14
62	Characterisation and recovery of sodium chloride from salt-laden solid waste generated from leather industry. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 117-124.	2.1	32
63	Integrated <i>Bacillus</i> sp. immobilized cell reactor and <i>Synechocystis</i> sp. algal reactor for the treatment of tannery wastewater. <i>Environmental Science and Pollution Research</i> , 2013, 20, 281-291.	2.7	17
64	Adsorption of ammonium ion by coconut shell-activated carbon from aqueous solution: kinetic, isotherm, and thermodynamic studies. <i>Environmental Science and Pollution Research</i> , 2013, 20, 533-542.	2.7	112
65	Synthesis and characterization of mesoporous activated carbon from rice husk for adsorption of glycine from alcohol-aqueous mixture. <i>Journal of Molecular Liquids</i> , 2013, 177, 416-425.	2.3	75
66	Preparation, characterizations and its application of heterogeneous Fenton catalyst for the treatment of synthetic phenol solution. <i>Journal of Molecular Liquids</i> , 2013, 177, 402-408.	2.3	31
67	Enhanced photocatalytic activity of ZnO/CuO nanocomposite for the degradation of textile dye on visible light illumination. <i>Materials Science and Engineering C</i> , 2013, 33, 91-98.	3.8	923
68	Immobilization of <i>Bacillus</i> sp. in mesoporous activated carbon for degradation of sulphonated phenolic compound in wastewater. <i>Materials Science and Engineering C</i> , 2013, 33, 735-745.	3.8	33
69	Oxidation of refractory organics by heterogeneous Fenton to reduce organic load in tannery wastewater. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 245-253.	2.1	33
70	Immobilized Micro-Organism in Mesoporous Activated Carbon for Treatment of Tannery Waste Water. <i>Tenside, Surfactants, Detergents</i> , 2012, 49, 472-480.	0.5	2
71	A new approach for the degradation of high concentration of aromatic amine by heterocatalytic Fenton oxidation: Kinetic and spectroscopic studies. <i>Journal of Molecular Liquids</i> , 2012, 173, 153-163.	2.3	521
72	Heterocatalytic Fenton oxidation process for the treatment of tannery effluent: kinetic and thermodynamic studies. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1828-1840.	2.7	39

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73	Surface functionalized mesoporous activated carbon for the immobilization of acidic lipase and their application to hydrolysis of waste cooked oil: Isotherm and kinetic studies. <i>Process Biochemistry</i> , 2012, 47, 435-445.	1.8	73
74	Treatment of textile wastewater by homogeneous and heterogeneous Fenton oxidation processes. <i>Desalination</i> , 2011, 281, 438-445.	4.0	218
75	Heterogeneous Fenton oxidation of dissolved organics in salt-laden wastewater from leather industry without sludge production. <i>Environmental Chemistry Letters</i> , 2011, 9, 499-504.	8.3	18