Sekar Karthikeyan

List of Publications by Year
in descending order

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75 papers	4,326 citations	147801 31 h-index	106344 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. Chemosphere, 2022, 291, 132922.	8.2	20
2	Hierarchical TiO2 spheroids decorated g-C3N4 nanocomposite for solar driven hydrogen production and water depollution. International Journal of Hydrogen Energy, 2022, 47, 3709-3721.	7.1	21
3	Fabrication of Hydrotalcite-like Copper Hydroxyl Salts as a Photocatalyst and Adsorbent for Hexavalent Chromium Removal. Minerals (Basel, Switzerland), 2022, 12, 182.	2.0	4
4	Fabrication of BiVO4/ reduced graphene oxide photocatlyst for hexavalent chromium reduction under visible region. Materials Today: Proceedings, 2022, 50, 400-405.	1.8	1
5	Zinc chloride promoted the inimitable dissolution and degradation of polyethylene in a deep eutectic solvent under white light. Green Chemistry, 2022, 24, 2953-2961.	9.0	4
6	Fabrication of graphitic carbon nitride/ZnTi-mixed metal oxide heterostructure: Robust photocatalytic decomposition of ciprofloxacin. Journal of Alloys and Compounds, 2022, 906, 164294.	5.5	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. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 645, 128893.	4.7	6
8	Recent development on core-shell photo(electro)catalysts for elimination of organic compounds from pharmaceutical wastewater. Chemosphere, 2022, 298, 134311.	8.2	21
9	Recent development of organicâ€“inorganic hybrid photocatalysts for biomass conversion into hydrogen production. Nanoscale Advances, 2022, 4, 2561-2582.	4.6	24
10	A Critical Study of Cu2O: Synthesis and Its Application in CO2 Reduction by Photochemical and Electrochemical Approaches. Catalysts, 2022, 12, 445.	3.5	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. Applied Clay Science, 2022, 227, 106577.	5.2	4
12	Sulfonated poly(ether ether ketone): efficient ion-exchange polymer electrolytes for fuel cell applicationsâ€“a versatile review. Materials Advances, 2022, 3, 6085-6095.	5.4	13
13	Single-step synthesis of efficient nanometric boron carbon nitride semiconductor for photocatalysis. Materials Research Bulletin, 2021, 134, 111106.	5.2	17
14	Surfactant- and template-free hydrothermal assembly of Cu2O visible light photocatalysts for trimethoprim degradation. Applied Catalysis B: Environmental, 2021, 284, 119741.	20.2	60
15	Synergistic ternary porous CNâ€“PPyâ€“MMt nanocomposite for efficient photocatalytic metronidazole mineralization: performance, mechanism, and pathways. Environmental Science: Nano, 2021, 8, 2261-2276.	4.3	16
16	Hierarchical bismuth vanadate/reduced graphene oxide composite photocatalyst for hydrogen evolution and bisphenol A degradation. Applied Materials Today, 2021, 22, 100963.	4.3	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. Applied Surface Science, 2021, 546, 148835.	6.1	30
18	Sustainable preparation and enhanced photocatalytic activity of Ag/AgBr@G nanocomposite for degradation of water pollutants under visible light. Applied Surface Science, 2021, 553, 149555.	6.1	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.	12.4	14
20	Cubic Cu2O nanoparticles decorated on TiO2 nanofiber heterostructure as an excellent synergistic photocatalyst for H2 production and sulfamethoxazole degradation. Applied Catalysis B: Environmental, 2021, 294, 120221.	20.2	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.	12.7	44
22	Single-step synthesis of oxygen-doped hollow porous graphitic carbon nitride for photocatalytic ciprofloxacin decomposition. Chemical Engineering Journal, 2021, 425, 130502.	12.7	41
23	A simple tactic synthesis of hollow porous graphitic carbon nitride with significantly enhanced photocatalytic performance. Chemical Communications, 2021, 57, 6772-6775.	4.1	19
24	Pompon Dahliaâ€like Cu₂O/rGO Nanostructures for Visible Light Photocatalytic H₂ Production and 4â€Chlorophenol Degradation. ChemCatChem, 2020, 12, 1699-1709.	3.7	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.	4.6	3
26	In situ preparation of a nanocomposite comprising graphene and Î±-Fe2O3 nanospindles for the photo-degradation of antibiotics under visible light. New Journal of Chemistry, 2020, 44, 15567-15573.	2.8	3
27	Fabrication and characterization of ternary sepiolite/g-C3N4/Pd composites for improvement of photocatalytic degradation of ciprofloxacin under visible light irradiation. Journal of Colloid and Interface Science, 2020, 577, 397-405.	9.4	58
28	Cobalt promoted bifunctional graphene composite (Co@pGSC) for heterogeneous peroxymonosulfate activation. Chemical Engineering Journal, 2020, 399, 125752.	12.7	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(<scp>vi</scp>). Chemical Communications, 2020, 56, 3793-3796.	4.1	28
30	Importance of ZnTiO₃ Phase in ZnTi-Mixed Metal Oxide Photocatalysts Derived from Layered Double Hydroxide. ACS Applied Materials & Interfaces, 2020, 12, 9169-9180.	8.0	41
31	Nanoscale materials with different dimensions for advanced electrocatalysts. , 2020, , 193-218.		0
32	Template free mild hydrothermal synthesis of coreâ€“shell Cu₂O(Cu)@CuO visible light photocatalysts for N-acetyl-para-aminophenol degradation. Journal of Materials Chemistry A, 2019, 7, 20767-20777.	10.3	46
33	Facile green synthesis and antimicrobial performance of Cu2O nanospheres decorated g-C3N4 nanocomposite. Materials Research Bulletin, 2019, 112, 331-335.	5.2	26
34	Crumpled sheet like graphene based WO3-Fe2O3 nanocomposites for enhanced charge transfer and solar photocatalysts for environmental remediation. Applied Surface Science, 2019, 470, 114-128.	6.1	45
35	Delaminated CoAlâ€Layered Double Hydroxide@TiO₂ Heterojunction Nanocomposites for Photocatalytic Reduction of CO₂. Particle and Particle Systems Characterization, 2018, 35, 1700317.	2.3	40
36	Arachis hypogaea derived activated carbon/Pt catalyst: Reduction of organic dyes. Surfaces and Interfaces, 2018, 13, 101-111.	3.0	18

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37	g-C3N4-Based Nanomaterials for Visible Light-Driven Photocatalysis. Catalysts, 2018, 8, 74.	3.5	188
38	A porous activated carbon supported Pt catalyst for the oxidative degradation of poly[(naphthaleneformaldehyde)sulfonate]. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 289-297.	5.3	7
39	Boron carbonitride sheet/ Cu2O composite for an efficient photocatalytic hydrogen evolution. Materials Chemistry and Physics, 2018, 219, 204-211.	4.0	9
40	Sizeâ€Đependent Visible Light Photocatalytic Performance of Cu₂O Nanocubes. ChemCatChem, 2018, 10, 3554-3563.	3.7	44
41	Functioned silver nanoparticle loaded activated carbon for the recovery of bioactive molecule from bacterial fermenter for its bactericidal activity. Applied Surface Science, 2018, 427, 813-824.	6.1	9
42	Multi-functional properties of ternary CeO 2 /SnO 2 /rGO nanocomposites: Visible light driven photocatalyst and heavy metal removal. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 346, 32-45.	3.9	109
43	NiO/nanoporous carbon heterogeneous Fenton catalyst for aqueous microcystine-LR decomposition. Journal of the Taiwan Institute of Chemical Engineers, 2017, 74, 289-295.	5.3	11
44	Cobalt promoted TiO2/GO for the photocatalytic degradation of oxytetracycline and Congo Red. Applied Catalysis B: Environmental, 2017, 201, 159-168.	20.2	298
45	Fenton-like degradation of Bisphenol A catalyzed by mesoporous Cu/TUD-1. Applied Surface Science, 2017, 393, 67-73.	6.1	63
46	Cu and Fe oxides dispersed on SBA-15: A Fenton type bimetallic catalyst for N,N -diethyl- p -phenyl diamine degradation. Applied Catalysis B: Environmental, 2016, 199, 323-330.	20.2	119
47	Advanced oxidation of catechol in reverse osmosis concentrate generated in leather wastewater by Cuâ€“graphite electrode. International Journal of Environmental Science and Technology, 2016, 13, 2143-2152.	3.5	12
48	Simultaneous removal of NH₄⁺-N and refractory organics through sequential heterogeneous Fenton oxidation process and struvite precipitation: kinetic study. RSC Advances, 2016, 6, 4250-4261.	3.6	17
49	Hydroxyl radical generation by cactus-like copper oxide nanoporous carbon catalysts for microcystin-LR environmental remediation. Catalysis Science and Technology, 2016, 6, 530-544.	4.1	58
50	In situ generation of hydroxyl radical by cobalt oxide supported porous carbon enhance removal of refractory organics in tannery dyeing wastewater. Journal of Colloid and Interface Science, 2015, 448, 163-174.	9.4	73
51	Fentonâ€Type Oxidative Degradation of N,Nâ€Diethylâ€pâ€phenylenediamine by a Mesoporous Wormhole Structured FeTUDâ€1 Catalyst. Clean - Soil, Air, Water, 2015, 43, 375-381.	1.1	6
52	Three dimensional electro catalytic oxidation of aniline by boron doped mesoporous activated carbon. Journal of Industrial and Engineering Chemistry, 2015, 21, 942-950.	5.8	48
53	Synthesis of reactive iron impregnated nanoporous activated carbon and its application in anaerobic biological treatment to enhance biodegradability of orthoâ€phenylenediamine. Journal of Chemical Technology and Biotechnology, 2015, 90, 1013-1026.	3.2	13
54	Response surface modeling for optimization heterocatalytic Fenton oxidation of persistence organic pollution in high total dissolved solid containing wastewater. Environmental Science and Pollution Research, 2014, 21, 1489-1502.	5.3	26

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55	Process optimization for the treatment of pharmaceutical wastewater catalyzed by poly sulpha sponge. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1739-1747.	5.3	45
56	Controlled synthesis and characterization of electron rich iron(<scp>iii</scp>) oxide doped nanoporous activated carbon for the catalytic oxidation of aqueous ortho phenylene diamine. RSC Advances, 2014, 4, 19183-19195.	3.6	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. RSC Advances, 2014, 4, 63354-63366.	3.6	14
58	In situ generation of a hydroxyl radical by nanoporous activated carbon derived from rice husk for environmental applications: kinetic and thermodynamic constants. Physical Chemistry Chemical Physics, 2014, 16, 3924.	2.8	41
59	The birefringence spectroscopic studies on ferroelectric glycine phosphite (GPI) single crystals. Materials Science-Poland, 2013, 31, 1-5.	1.0	15
60	Characterization of iron impregnated polyacrylamide catalyst and its application to the treatment of municipal wastewater. RSC Advances, 2013, 3, 15044.	3.6	48
61	Nanoporous activated carbon fluidized bed catalytic oxidations of aqueous o, p and m-cresols: kinetic and thermodynamic studies. Environmental Science and Pollution Research, 2013, 20, 4790-4806.	5.3	14
62	Characterisation and recovery of sodium chloride from salt-laden solid waste generated from leather industry. Clean Technologies and Environmental Policy, 2013, 15, 117-124.	4.1	32
63	Integrated Bacillus sp. immobilized cell reactor and Synechocystis sp. algal reactor for the treatment of tannery wastewater. Environmental Science and Pollution Research, 2013, 20, 281-291.	5.3	17
64	Adsorption of ammonium ion by coconut shell-activated carbon from aqueous solution: kinetic, isotherm, and thermodynamic studies. Environmental Science and Pollution Research, 2013, 20, 533-542.	5.3	112
65	Synthesis and characterization of mesoporous activated carbon from rice husk for adsorption of glycine from alcohol-aqueous mixture. Journal of Molecular Liquids, 2013, 177, 416-425.	4.9	75
66	Preparation, characterizations and its application of heterogeneous Fenton catalyst for the treatment of synthetic phenol solution. Journal of Molecular Liquids, 2013, 177, 402-408.	4.9	31
67	Enhanced photocatalytic activity of ZnO/CuO nanocomposite for the degradation of textile dye on visible light illumination. Materials Science and Engineering C, 2013, 33, 91-98.	7.3	923
68	Immobilization of Bacillus sp. in mesoporous activated carbon for degradation of sulphonated phenolic compound in wastewater. Materials Science and Engineering C, 2013, 33, 735-745.	7.3	33
69	Oxidation of refractory organics by heterogeneous Fenton to reduce organic load in tannery wastewater. Clean Technologies and Environmental Policy, 2013, 15, 245-253.	4.1	33
70	Immobilized Micro-Organism in Mesoporous Activated Carbon for Treatment of Tannery Waste Water. Tenside, Surfactants, Detergents, 2012, 49, 472-480.	1.2	2
71	A new approach for the degradation of high concentration of aromatic amine by heterocatalytic Fenton oxidation: Kinetic and spectroscopic studies. Journal of Molecular Liquids, 2012, 173, 153-163.	4.9	521
72	Heterocatalytic Fenton oxidation process for the treatment of tannery effluent: kinetic and thermodynamic studies. Environmental Science and Pollution Research, 2012, 19, 1828-1840.	5.3	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. Process Biochemistry, 2012, 47, 435-445.	3.7	73
74	Treatment of textile wastewater by homogeneous and heterogeneous Fenton oxidation processes. Desalination, 2011, 281, 438-445.	8.2	218
75	Heterogeneous Fenton oxidation of dissolved organics in salt-laden wastewater from leather industry without sludge production. Environmental Chemistry Letters, 2011, 9, 499-504.	16.2	18