

Bharath Govindan

List of Publications by Year in descending order

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99
papers

4,949
citations

70961

41
h-index

106150

65
g-index

100
all docs

100
docs citations

100
times ranked

4989
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface tuned polyethersulfone membrane using an iron oxide functionalized halloysite nanocomposite for enhanced humic acid removal. <i>Environmental Research</i> , 2022, 204, 112113.	3.7	16
2	Enhanced water permeability and fouling resistance properties of ultrafiltration membranes incorporated with hydroxyapatite decorated orange-peel-derived activated carbon nanocomposites. <i>Chemosphere</i> , 2022, 286, 131799.	4.2	24
3	Highly permeable, environmentally-friendly, antifouling polylactic acid-hydroxyapatite/polydopamine (PLA-HAp/PDA) ultrafiltration membranes. <i>Journal of Cleaner Production</i> , 2022, 330, 129871.	4.6	20
4	Fabrication of Pd/MnFe ₂ O ₄ bifunctional 2-D nanosheets to enhance the yield of HCOOH from CO ₂ cathodic reduction paired with anodic oxidation to CH ₃ OH. <i>Fuel</i> , 2022, 311, 122619.	3.4	22
5	2D $\text{MoO}_3\text{-x}$ truncated microplates and microdisks as electroactive materials for highly efficient asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 48, 103958.	3.9	9
6	Pyrolysis of date seeds loaded with layered double hydroxide: Kinetics, thermodynamics, and pyrolytic gas properties. <i>Energy Conversion and Management</i> , 2022, 252, 115127.	4.4	23
7	Emerging chemo-biocatalytic routes for valorization of major greenhouse gases (GHG) into industrial products: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 1-20.	2.9	9
8	Fabrication of Ru@CoFe ₂ O ₄ /RGO hierarchical nanostructures for high-performance photoelectrodes to reduce hazards Cr(VI) into Cr(III) coupled with anodic oxidation of phenols. <i>Chemosphere</i> , 2022, 299, 134439.	4.2	17
9	Adsorptive removal of Acid Blue 113 using hydroxyapatite nanoadsorbents synthesized using <i>Peltophorum pterocarpum</i> pod extract. <i>Chemosphere</i> , 2022, 299, 134752.	4.2	32
10	Surface engineering of Au nanostructures for plasmon-enhanced electrochemical reduction of N ₂ and CO ₂ into urea in the visible-NIR region. <i>Applied Energy</i> , 2022, 318, 119244.	5.1	23
11	Pyrolysis of different date palm industrial wastes into high-quality bio-oils: A comparative study. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 55-64.	2.1	25
12	Biosorption potential of <i>Phoenix dactylifera</i> coir wastes for toxic hexavalent chromium sequestration. <i>Chemosphere</i> , 2021, 268, 128809.	4.2	54
13	Green synthesis of zinc oxide nanoparticles using <i>Phoenix dactylifera</i> waste as bioreductant for effective dye degradation and antibacterial performance in wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 402, 123560.	6.5	276
14	Ferric oxide/date seed activated carbon nanocomposites mediated dark fermentation of date fruit wastes for enriched biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16631-16643.	3.8	60
15	Designed assembly of Ni/MAX (Ti ₃ AlC ₂) and porous graphene-based asymmetric electrodes for capacitive deionization of multivalent ions. <i>Chemosphere</i> , 2021, 266, 129048.	4.2	36
16	High-performance and stable Ru-Pd nanosphere catalyst supported on two-dimensional boron nitride nanosheets for the hydrogenation of furfural via water-mediated protonation. <i>Fuel</i> , 2021, 290, 119826.	3.4	31
17	Augmented biohydrogen production from rice mill wastewater through nano-metal oxides assisted dark fermentation. <i>Bioresource Technology</i> , 2021, 319, 124243.	4.8	74
18	Extraction, characterization and optimization of high quality bio-oil derived from waste date seeds. <i>Chemical Engineering Communications</i> , 2021, 208, 801-811.	1.5	31

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19	Smart polymeric composite membranes for wastewater treatment. , 2021, , 313-350.		3
20	Improved permeability and antifouling performance of polyethersulfone ultrafiltration membranes tailored by hydroxyapatite/boron nitride nanocomposites. Chemosphere, 2021, 268, 129306.	4.2	46
21	Removal of 1-naphthylamine using magnetic graphene and magnetic graphene oxide functionalized with Chitosan. Environmental Nanotechnology, Monitoring and Management, 2021, 15, 100450.	1.7	7
22	Morphology-dependent catalytic activity of tungsten trioxide (WO ₃) nanostructures for hydrogenation of furfural to furfuryl alcohol. Journal Physics D: Applied Physics, 2021, 54, 305502.	1.3	4
23	High-Grade Biofuel Synthesis from Paired Electrohydrogenation and Electrooxidation of Furfural Using Symmetric Ru/Reduced Graphene Oxide Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 24643-24653.	4.0	26
24	Surface functionalized highly porous date seed derived activated carbon and MoS ₂ nanocomposites for hydrogenation of CO ₂ into formic acid. Journal of Hazardous Materials, 2021, 409, 124980.	6.5	26
25	Highly selective etherification of fructose and 5-hydroxymethylfurfural over a novel Pd-Ru/MXene catalyst for sustainable liquid fuel production. International Journal of Energy Research, 2021, 45, 14680-14691.	2.2	23
26	Hybrid capacitive deionization of NaCl and toxic heavy metal ions using faradic electrodes of silver nanospheres decorated pomegranate peel-derived activated carbon. Environmental Research, 2021, 197, 111110.	3.7	34
27	Hybrid Pd ₅₀ -Ru ₅₀ /MXene (Ti ₃ C ₂ T _x) nanocatalyst for effective hydrogenation of CO ₂ to methanol toward climate change control. Chemical Engineering Journal, 2021, 414, 128869.	6.6	42
28	Synthesis of TiO ₂ /RGO with plasmonic Ag nanoparticles for highly efficient photoelectrocatalytic reduction of CO ₂ to methanol toward the removal of an organic pollutant from the atmosphere. Environmental Pollution, 2021, 281, 116990.	3.7	61
29	Adsorptive removal of noxious atrazine using graphene oxide nanosheets: Insights to process optimization, equilibrium, kinetics, and density functional theory calculations. Environmental Research, 2021, 200, 111428.	3.7	35
30	Self-Assembled Co ₃ O ₄ Nanospheres on N-Doped Reduced Graphene Oxide (Co ₃ O ₄ /N-RGO) Bifunctional Electrocatalysts for Cathodic Reduction of CO ₂ and Anodic Oxidation of Organic Pollutants. ACS Applied Energy Materials, 2021, 4, 11408-11418.	2.5	19
31	In-vitro evaluation of electrospun cellulose acetate nanofiber containing Graphene oxide/TiO ₂ /Curcumin for wound healing application. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127166.	2.3	81
32	An efficient and magnetically recoverable g-C ₃ N ₄ /ZnS/CoFe ₂ O ₄ nanocomposite for sustainable photodegradation of organic dye under UV-visible light illumination. Environmental Research, 2021, 201, 111429.	3.7	31
33	A hybrid chemo-biocatalytic system of carbonic anhydrase submerged in CO ₂ -phillic sterically hindered amines for enhanced CO ₂ capture and conversion into carbonates. International Journal of Greenhouse Gas Control, 2021, 111, 103465.	2.3	8
34	Nano-activated carbon derived from date palm coir waste for efficient sequestration of noxious 2,4-dichlorophenoxyacetic acid herbicide. Chemosphere, 2021, 282, 131103.	4.2	37
35	Polymerization of lactic acid produced from food waste by metal oxide-assisted dark fermentation. Environmental Technology and Innovation, 2021, 24, 101862.	3.0	13
36	Valorization of groundnut shell via pyrolysis: Product distribution, thermodynamic analysis, kinetic estimation, and artificial neural network modeling. Chemosphere, 2021, 283, 131162.	4.2	33

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37	Dual-functional paired photoelectrocatalytic system for the photocathodic reduction of CO ₂ to fuels and the anodic oxidation of furfural to value-added chemicals. Applied Catalysis B: Environmental, 2021, 298, 120520.	10.8	24
38	Development of chitosan/poly (vinyl alcohol)/graphene oxide loaded with vanadium doped titanium dioxide patch for visible light driven antibacterial activity and accelerated wound healing application. International Journal of Biological Macromolecules, 2021, 193, 1430-1448.	3.6	27
39	A review of the therapeutic and biological effects of edible and wild mushrooms. Bioengineered, 2021, 12, 11239-11268.	1.4	43
40	Synthesis of one-dimensional magnetite hydroxyapatite nanorods on reduced graphene oxide sheets for selective separation and controlled delivery of hemoglobin. Applied Surface Science, 2020, 501, 144215.	3.1	32
41	Fabrication of Chitosan/PVA/GO/CuO patch for potential wound healing application. International Journal of Biological Macromolecules, 2020, 143, 744-762.	3.6	114
42	Enhanced biohydrogen production from date seeds by Clostridium thermocellum ATCC 27405. International Journal of Hydrogen Energy, 2020, 45, 22271-22280.	3.8	56
43	Morphology-dependent electrochemical performance of MnO ₂ nanostructures on graphene towards efficient capacitive deionization. Electrochimica Acta, 2020, 330, 135202.	2.6	55
44	Synthesis of hierarchical Mn ₃ O ₄ nanowires on reduced graphene oxide nanoarchitecture as effective pseudocapacitive electrodes for capacitive desalination application. Electrochimica Acta, 2020, 337, 135668.	2.6	72
45	The fabrication of activated carbon and metal-carbide 2D framework-based asymmetric electrodes for the capacitive deionization of Cr(VI) ions toward industrial wastewater remediation. Environmental Science: Water Research and Technology, 2020, 6, 351-361.	1.2	43
46	Preparation of MoS ₂ /graphene nanostructures and their supercapacitor and hydrogen evolution reaction (HER) performances. Journal Physics D: Applied Physics, 2020, 53, 065501.	1.3	7
47	Cobalt and nickel ferrites based capacitive deionization electrode materials for water desalination applications. Electrochimica Acta, 2020, 363, 137083.	2.6	31
48	ZrO ₂ incorporated polysulfone anion exchange membranes for fuel cell applications. International Journal of Hydrogen Energy, 2020, 45, 29668-29680.	3.8	43
49	Development of watermelon rind derived activated carbon/manganese ferrite nanocomposite for cleaner desalination by capacitive deionization. Journal of Cleaner Production, 2020, 272, 122626.	4.6	41
50	Nanosized Titania-Nickel mixed oxide for visible light photocatalytic activity. Journal of Molecular Liquids, 2020, 311, 113328.	2.3	12
51	Biosorption performance of date palm empty fruit bunch wastes for toxic hexavalent chromium removal. Environmental Research, 2020, 187, 109694.	3.7	98
52	Facile synthesis of fibrous, mesoporous Ni _{1-x} O nanosponge supported on Ni foam for enhanced pseudocapacitor applications. Journal of Materials Science, 2020, 55, 12232-12248.	1.7	11
53	Activated Carbon Derived from Phoenix dactylifera (Palm Tree) and Decorated with MnO ₂ Nanoparticles for Enhanced Hybrid Capacitive Deionization Electrodes. ChemistrySelect, 2020, 5, 3248-3256.	0.7	29
54	Systematic production and characterization of pyrolysis-oil from date tree wastes for bio-fuel applications. Biomass and Bioenergy, 2020, 135, 105523.	2.9	57

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55	Nutritional Quality and Physico-Chemical Characteristics of Selected Date Fruit Varieties of the United Arab Emirates. <i>Processes</i> , 2020, 8, 256.	1.3	39
56	Development of Au and 1D Hydroxyapatite Nanohybrids Supported on 2D Boron Nitride Sheets as Highly Efficient Catalysts for Dehydrogenating Glycerol to Lactic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7278-7289.	3.2	26
57	Catalytic hydrodeoxygenation of biomass-derived pyrolysis oil over alloyed bimetallic Ni ₃ Fe nanocatalyst for high-grade biofuel production. <i>Energy Conversion and Management</i> , 2020, 213, 112859.	4.4	47
58	Magnetic graphene/chitosan nanocomposite: A promising nano-adsorbent for the removal of 2-naphthol from aqueous solution and their kinetic studies. <i>International Journal of Biological Macromolecules</i> , 2020, 159, 530-538.	3.6	52
59	Capacitive deionization of NaCl from saline solution using graphene/CNTs/ZnO NPs based electrodes. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 455304.	1.3	18
60	Synthesis of Jointly Welded Carbon Nanotube Foam @ Ni(OH) ₂ Nanosheet-Based Core-Shell 3D Architecture for Freestanding Flexible Electrode for Supercapacitor Applications. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900670.	1.9	20
61	Enhanced electrochemical performances of peanut shell derived activated carbon and its Fe ₃ O ₄ nanocomposites for capacitive deionization of Cr(VI) ions. <i>Science of the Total Environment</i> , 2019, 691, 713-726.	3.9	113
62	Date seeds biomass-derived activated carbon for efficient removal of NaCl from saline solution. <i>Chemical Engineering Research and Design</i> , 2019, 129, 103-111.	2.7	91
63	Date pits activated carbon for divalent lead ions removal. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 88-97.	1.1	101
64	Nature-Inspired, Graphene-Wrapped 3D MoS ₂ Ultrathin Microflower Architecture as a High-Performance Anode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22323-22331.	4.0	93
65	Mesoporous hydroxyapatite nanoplate arrays as pH-sensitive drug carrier for cancer therapy. <i>Materials Research Express</i> , 2019, 6, 085409.	0.8	11
66	A review on the recent advances, challenges and future aspect of layered double hydroxides (LDH) containing hybrids as promising adsorbents for dyes removal. <i>Journal of Molecular Liquids</i> , 2019, 288, 110989.	2.3	196
67	Investigations on the in-vivo toxicity analysis of reduced graphene oxide/TiO ₂ nanocomposite in zebrafish embryo and larvae (<i>Danio rerio</i>). <i>Applied Surface Science</i> , 2019, 481, 1360-1369.	3.1	39
68	Molybdenum disulfide decorated palm oil waste activated carbon as an efficient catalyst for hydrogen generation by sodium borohydride hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14406-14415.	3.8	31
69	Effective treatment of dye polluted wastewater using nanoporous CaCl ₂ modified polyethersulfone membrane. <i>Chemical Engineering Research and Design</i> , 2019, 124, 266-278.	2.7	77
70	Shape-controlled rapid synthesis of magnetic nanoparticles and their morphological dependent magnetic and thermal studies for cancer therapy applications. <i>Materials Research Express</i> , 2019, 6, 066104.	0.8	10
71	Integrated Microcentrifuge Carbon Entrapped Glucose Oxidase Poly (N-Isopropylacrylamide) (pNIPAm) Microgels for Glucose Amperometric Detection. <i>Analytical Letters</i> , 2019, 52, 825-838.	1.0	17
72	Mango leaf extract incorporated chitosan antioxidant film for active food packaging. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 1234-1243.	3.6	264

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73	Ag-Cu bimetallic nanoparticle decorated graphene nanocomposite as an effective anode material for hybrid capacitive deionization (HCDI) system. <i>Electrochimica Acta</i> , 2019, 297, 1052-1062.	2.6	46
74	Facile synthesis of Au@Fe ₂ O ₃ @RGO ternary nanocomposites for enhanced electrochemical sensing of caffeic acid toward biomedical applications. <i>Journal of Alloys and Compounds</i> , 2018, 750, 819-827.	2.8	52
75	Sunlight-Induced photochemical synthesis of Au nanodots on Fe ₂ O ₃ @Reduced graphene oxide nanocomposite and their enhanced heterogeneous catalytic properties. <i>Scientific Reports</i> , 2018, 8, 5718.	1.6	96
76	Corrigendum to "Nanoporous Ag-Au Bimetallic Triangular Nanoprisms Synthesized by Galvanic Replacement for Plasmonic Applications". <i>Journal of Nanomaterials</i> , 2018, 2018, 1-1.	1.5	0
77	A comprehensive review on recently developed carbon based nanocomposites for capacitive deionization: From theory to practice. <i>Separation and Purification Technology</i> , 2018, 207, 291-320.	3.9	161
78	Nanoporous Ag-Au Bimetallic Triangular Nanoprisms Synthesized by Galvanic Replacement for Plasmonic Applications. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-7.	1.5	6
79	Synthesis of edge-site selectively deposited Au nanocrystals on TiO ₂ nanosheets: An efficient heterogeneous catalyst with enhanced visible-light photoactivity. <i>Electrochimica Acta</i> , 2018, 283, 1095-1104.	2.6	41
80	A facile low-temperature synthesis of V ₂ O ₅ flakes for electrochemical detection of hydrogen peroxide sensor. <i>Ionics</i> , 2017, 23, 2193-2200.	1.2	15
81	Development of adsorption and electrosorption techniques for removal of organic and inorganic pollutants from wastewater using novel magnetite/porous graphene-based nanocomposites. <i>Separation and Purification Technology</i> , 2017, 188, 206-218.	3.9	141
82	Investigation on biophysical properties of Hydroxyapatite/Graphene oxide (HAp/GO) based binary nanocomposite for biomedical applications. <i>Materials Chemistry and Physics</i> , 2017, 199, 179-184.	2.0	68
83	Facile synthesis, structural characterization, photocatalytic and antimicrobial activities of Zr doped CeO ₂ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017, 724, 555-564.	2.8	48
84	Enhanced hydroxyapatite nanorods formation on graphene oxide nanocomposite as a potential candidate for protein adsorption, pH controlled release and an effective drug delivery platform for cancer therapy. <i>Analytical Methods</i> , 2017, 9, 240-252.	1.3	63
85	Synthesis and Antimicrobial Activity of Novel Substituted 4-[3-(1H-Benzimidazol-2-yl)-4-hydroxybenzyl]-2-(1H-benzimidazol-2-yl)phenol Derivatives. <i>Russian Journal of General Chemistry</i> , 2017, 87, 3017-3022.	0.3	2
86	Synthesis and antimicrobial activity of novel substituted 4-[3-(1H-benzimidazol-2-yl)-4-hydroxybenzyl]-2-(1H-benzimidazol-2-yl)phenol derivatives. <i>Russian Journal of General Chemistry</i> , 2017, 87, 2648-2653.	0.3	1
87	Designed Synthesis of Nanostructured Magnetic Hydroxyapatite Based Drug Nanocarrier for Anti-Cancer Drug Delivery toward the Treatment of Human Epidermoid Carcinoma. <i>Nanomaterials</i> , 2017, 7, 138.	1.9	40
88	Sol-Gel-Assisted Microwave-Derived Synthesis of Anatase Ag/TiO ₂ /GO Nanohybrids toward Efficient Visible Light Phenol Degradation. <i>Catalysts</i> , 2017, 7, 133.	1.6	87
89	Solution combustion synthesis and physico-chemical properties of ultrafine CeO ₂ nanoparticles and their photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 51238-51245.	1.7	28
90	Synthesis of novel triazole/isoxazole functionalized 7-(trifluoromethyl)pyrido[2,3-d]pyrimidine derivatives as promising anticancer and antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2927-2930.	1.0	79

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91	Synthesis, antimicrobial evaluation, and docking studies of some novel benzofuran based analogues of chalcone and 1,4-benzodiazepine. Russian Journal of General Chemistry, 2016, 86, 1711-1721.	0.3	16
92	Enhanced electrocatalytic activity of gold nanoparticles on hydroxyapatite nanorods for sensitive hydrazine sensors. Journal of Materials Chemistry A, 2016, 4, 6385-6394.	5.2	83
93	Edge-carboxylated graphene anchoring magnetite-hydroxyapatite nanocomposite for an efficient 4-nitrophenol sensor. RSC Advances, 2015, 5, 13392-13401.	1.7	50
94	Solvent-free mechanochemical synthesis of graphene oxide and Fe ₃ O ₄ "reduced graphene oxide nanocomposites for sensitive detection of nitrite. Journal of Materials Chemistry A, 2015, 3, 15529-15539.	5.2	163
95	Hydroxyapatite nanoparticles on dendritic Fe ₂ O ₃ hierarchical architectures for a heterogeneous photocatalyst and adsorption of Pb(II) ions from industrial wastewater. RSC Advances, 2015, 5, 84685-84693.	1.7	62
96	Enzymatic electrochemical glucose biosensors by mesoporous 1D hydroxyapatite-on-2D reduced graphene oxide. Journal of Materials Chemistry B, 2015, 3, 1360-1370.	2.9	148
97	Facile in situ growth of Fe ₃ O ₄ nanoparticles on hydroxyapatite nanorods for pH dependent adsorption and controlled release of proteins. RSC Advances, 2014, 4, 50510-50520.	1.7	34
98	Shape evolution and size controlled synthesis of mesoporous hydroxyapatite nanostructures and their morphology dependent Pb(II) removal from waste water. RSC Advances, 2014, 4, 37446-37457.	1.7	54
99	Sub-critical water extraction of reducing sugars and phenolic compounds from date palm fruit. Biomass Conversion and Biorefinery, 0, , 1.	2.9	14