

Bappi Paul

List of Publications by Year in descending order

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73
papers

2,464
citations

159585

30
h-index

214800

47
g-index

76
all docs

76
docs citations

76
times ranked

2759
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of silanized milled graphite nanoparticles on thermo-mechanical properties of epoxy nanocomposite. <i>Materials Chemistry and Physics</i> , 2022, 278, 125601.	4.0	10
2	Influence of Nanoscale Charge Trapping Layer on the Memory and Synaptic Characteristics of a Novel Rubidium Lead Chloride Quantum Dot Based Memristor. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	23
3	Utilization of biowaste-derived catalysts for biodiesel production: process optimization using response surface methodology and particle swarm optimization method. <i>Energy Advances</i> , 2022, 1, 287-302.	3.3	14
4	Novel microporous organic-inorganic hybrid metal phosphonates as electrocatalysts towards water oxidation reaction. <i>Electrochimica Acta</i> , 2022, 416, 140277.	5.2	9
5	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 322-332.	9.4	51
6	Microporous nickel phosphonate derived heteroatom doped nickel oxide and nickel phosphide: Efficient electrocatalysts for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 405, 126803.	12.7	112
7	Nickel Nanoparticles Supported on Nonreducible Mesoporous Materials: Effects of Framework Types on the Catalytic Decomposition of Methane. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 168-171.	1.9	1
8	Magnetically Recoverable Graphene Oxide Wrapped CuCo ₂ S ₄ /Iron Oxides Composites for Supercapacitor Application and Fenton Degradation of Organic Molecules. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 1978-1991.	3.7	3
9	CoOx electro-catalysts anchored on nitrogen-doped carbon nanotubes for the oxygen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2021, 5, 820-827.	4.9	10
10	Metal organic framework derived magnetically recoverable CuFe ₂ O ₄ porous cubes for efficient photocatalytic application. <i>Inorganic Chemistry Communication</i> , 2021, 125, 108405.	3.9	20
11	Halide perovskite two-terminal analog memristor capable of photo-activated synaptic weight modulation for neuromorphic computing. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	35
12	Understanding the Origin of Structure Sensitivity in Nano Crystalline Mixed Cu/Mg ²⁺ Al Oxides Catalyst for Low-Pressure Methanol Synthesis. <i>ChemCatChem</i> , 2021, 13, 3290-3302.	3.7	8
13	Improvement of the Resistive Switching Characteristics upon Halide Mixing in an All-Inorganic RbPbI ₃ Perovskite Polymer Composite Based Flexible Device. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13610-13618.	3.1	27
14	Influence of Indium as a Promoter on the Stability and Selectivity of the Nanocrystalline Cu/CeO ₂ Catalyst for CO ₂ Hydrogenation to Methanol. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28201-28213.	8.0	27
15	Combined experimental and computational study to unravel the factors of the Cu/TiO ₂ catalyst for CO ₂ hydrogenation to methanol. <i>Journal of CO₂ Utilization</i> , 2021, 50, 101576.	6.8	18
16	Design of highly stable MgO promoted Cu/ZnO catalyst for clean methanol production through selective hydrogenation of CO ₂ . <i>Applied Catalysis A: General</i> , 2021, 623, 118239.	4.3	40
17	Bifunctional crystalline microporous organic polymers: Efficient heterogeneous catalysts for the synthesis of 5-hydroxymethylfurfural. <i>Molecular Catalysis</i> , 2021, 515, 111877.	2.0	6
18	Synthesis of novel AgCl loaded g-C ₃ N ₅ with ultrahigh activity as visible light photocatalyst for pollutants degradation. <i>Chemical Physics Letters</i> , 2020, 738, 136862.	2.6	47

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19	Highly efficient conversion of the nitroarenes to amines at the interface of a ternary hybrid containing silver nanoparticles doped reduced graphene oxide/ graphitic carbon nitride under visible light. <i>Journal of Hazardous Materials</i> , 2020, 387, 121700.	12.4	36
20	Facile large scale synthesis of CuCr ₂ O ₄ /CuO nanocomposite using MOF route for photocatalytic degradation of methylene blue and tetracycline under visible light. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5365.	3.5	28
21	Morphology controlled synthesis of 2D heterostructure Ag/WO ₃ nanocomposites for enhanced photoelectrochemical CO ₂ reduction performance. <i>Journal of CO₂ Utilization</i> , 2020, 41, 101284.	6.8	20
22	Transesterification of soybean oil at room temperature using biowaste as catalyst; an experimental investigation on the effect of co-solvent on biodiesel yield. <i>Renewable Energy</i> , 2020, 162, 98-111.	8.9	49
23	Induced Vacancy-Assisted Filamentary Resistive Switching Device Based on RbPb ₃ Cl Perovskite for RRAM Application. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41718-41727.	8.0	46
24	Facile synthesis of YbVO ₄ , and YVO ₄ nanostructures through MOF route for photocatalytic applications. <i>Inorganic Chemistry Communication</i> , 2020, 115, 107855.	3.9	18
25	Highly active novel CeTi ₂ O ₆ /g-C ₃ N ₅ photocatalyst with extended spectral response towards removal of endocrine disruptor 2, 4-dichlorophenol in aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 592, 124583.	4.7	55
26	Facile Synthesis of Nanoporous Transition Metal-Based Phosphates for Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2020, 12, 2091-2096.	3.7	106
27	Assessing damage mitigation by silanized milled graphite nanoparticles in hybrid GFRP laminated composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105784.	7.6	16
28	Novel porous metal phosphonates as efficient electrocatalysts for the oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020, 396, 125245.	12.7	54
29	Enhanced electrochemical performance of copper oxide nanobeads a potential electrode material for energy storage devices. <i>Chemical Physics Letters</i> , 2020, 749, 137472.	2.6	3
30	Compliance Current-Dependent Dual-Functional Bipolar and Threshold Resistive Switching in All-Inorganic Rubidium Lead-Bromide Perovskite-Based Flexible Device. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1343-1351.	4.3	51
31	Bismuth Enriched Materials for Pseudo Capacitor Applications. , 2020, , .		1
32	Facile Synthesis of Spinel CoFe ₂ O ₄ Nanoparticle and Its Application as Magnetic Recoverable Photocatalyst for Degradation of Metronidazole and Some Selected Organic Dyes. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1209-1214.	0.9	2
33	Co-pyrolysis of rice straw and water hyacinth: Characterization of products, yields and biomass interaction effect. <i>Biomass and Bioenergy</i> , 2019, 127, 105281.	5.7	32
34	Facile synthesis of size-controlled Ag supported on WO ₃ nanorods and their application as novel and active catalyst in oxidant-free dehydrogenation of benzyl alcohols. <i>Catalysis Communications</i> , 2019, 132, 105804.	3.3	25
35	Development of Highly Efficient and Durable Three-Dimensional Octahedron NiCo ₂ O ₄ Spinel Nanoparticles toward the Selective Oxidation of Styrene. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18168-18177.	3.7	17
36	Fabrication of Au Nanoparticles Supported on One-Dimensional La ₂ O ₃ Nanorods for Selective Esterification of Methacrolein to Methyl Methacrylate with Molecular Oxygen. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3982-3994.	6.7	27

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37	Low-temperature catalytic oxidation of aniline to azoxybenzene over an Ag/Fe ₂ O ₃ nanoparticle catalyst using H ₂ O ₂ as an oxidant. <i>New Journal of Chemistry</i> , 2019, 43, 8911-8918.	2.8	15
38	Room temperature catalytic reduction of nitrobenzene to azoxybenzene over one pot synthesised reduced graphene oxide decorated with Ag/ZnO nanocomposite. <i>Catalysis Communications</i> , 2019, 124, 71-75.	3.3	18
39	Synthesis of yttrium doped BiOF/RGO composite for visible light: Photocatalytic applications. <i>Materials Science for Energy Technologies</i> , 2019, 2, 112-116.	1.8	22
40	Photocatalytic oxidation of aromatic alcohols over silver supported on cobalt oxide nanostructured catalyst. <i>Journal of Alloys and Compounds</i> , 2019, 783, 583-592.	5.5	25
41	Room temperature photocatalytic conversion of aldehydes to esters using gold supported cerium oxide nanoparticles under visible light irradiation. <i>Materials Letters</i> , 2019, 237, 113-117.	2.6	11
42	Fabrication of a Novel ZnO/NiMoO ₄ Nanocomposite and Evaluation of Its Visible Light Driven Photocatalytic Performance. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 743-750.	2.0	8
43	Facile solvothermal synthesis of BiOI microsquares as a novel electrode material for supercapacitor applications. <i>Materials Letters</i> , 2018, 210, 109-112.	2.6	31
44	Facile Solvothermal Synthesis of CuCo ₂ S ₄ Yolk-Shells and Their Visible-Light-Driven Photocatalytic Properties. <i>Materials</i> , 2018, 11, 2303.	2.9	7
45	Anchoring carbon spheres on BiOBr/g-C ₃ N ₄ matrix for high-performance visible light photocatalysis. <i>Ceramics International</i> , 2018, 44, 23320-23323.	4.8	34
46	<i>Paederia foetida</i> Linn. promoted synthesis of CoFe ₂ O ₄ and NiFe ₂ O ₄ nanostructures and their photocatalytic efficiency. <i>IET Nanobiotechnology</i> , 2018, 12, 235-240.	3.8	10
47	One-pot hydrothermal synthesis of CuCo ₂ S ₄ /RGO nanocomposites for visible-light photocatalytic applications. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 123, 242-253.	4.0	39
48	Waste snail shell derived heterogeneous catalyst for biodiesel production by the transesterification of soybean oil. <i>RSC Advances</i> , 2018, 8, 20131-20142.	3.6	183
49	One-pot green synthesis of zinc oxide nano rice and its application as sonocatalyst for degradation of organic dye and synthesis of 2-benzimidazole derivatives. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 104, 152-159.	4.0	32
50	<i>Paederia foetida</i> Linn . promoted biogenic gold and silver nanoparticles: Synthesis, characterization, photocatalytic and in vitro efficacy against clinically isolated pathogens. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 173, 210-215.	3.8	48
51	Fine cutting edge shaped Bi ₂ O ₃ rods/reduced graphene oxide (RGO) composite for supercapacitor and visible-light photocatalytic applications. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 449-459.	9.4	121
52	Facile hydrothermal synthesis of ultrasmall W ₁₈ O ₄₉ nanoparticles and studies of their photocatalytic activity towards degradation of methylene blue. <i>Materials Chemistry and Physics</i> , 2017, 188, 1-7.	4.0	39
53	Supercapacitors studies on BiPO ₄ nanoparticles synthesized via a simple microwave approach. <i>Journal of Taibah University for Science</i> , 2017, 11, 661-666.	2.5	27
54	Facile synthesis of novel CaFe ₂ O ₄ /g-C ₃ N ₄ nanocomposites for degradation of methylene blue under visible-light irradiation. <i>Journal of Colloid and Interface Science</i> , 2016, 480, 126-136.	9.4	104

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55	Facile one-pot strategy to prepare Ag/Fe ₂ O ₃ decorated reduced graphene oxide nanocomposite and its catalytic application in chemoselective reduction of nitroarenes. <i>Journal of Alloys and Compounds</i> , 2016, 681, 316-323.	5.5	37
56	Biomolecule-assisted solvothermal synthesis of Cu ₂ Sn ₃ flowers/RGO nanocomposites and their visible-light-driven photocatalytic activities. <i>RSC Advances</i> , 2016, 6, 74177-74185.	3.6	36
57	One-pot green synthesis of gold nanoparticles and studies of their anticoagulative and photocatalytic activities. <i>Materials Letters</i> , 2016, 185, 143-147.	2.6	50
58	Î±-Fe ₂ O ₃ immobilized benzimidazolium tribromide as novel magnetically retrievable catalyst for one-pot synthesis of highly functionalized piperidines. <i>Chinese Chemical Letters</i> , 2016, 27, 1725-1730.	9.0	29
59	Preparation and characterization of WO ₃ bonded imidazolium sulfonic acid chloride as a novel and green ionic liquid catalyst for the synthesis of adipic acid. <i>RSC Advances</i> , 2016, 6, 99044-99052.	3.6	14
60	One-pot hydrothermal synthesis and characterization of CoFe ₂ O ₄ nanoparticles and its application as magnetically recoverable catalyst in oxidation of alcohols by periodic acid. <i>Materials Chemistry and Physics</i> , 2016, 181, 99-105.	4.0	31
61	Facile synthesis and characterization of zinc oxide nanoparticles and studies of their catalytic activity towards ultrasound-assisted degradation of metronidazole. <i>Materials Letters</i> , 2016, 168, 158-162.	2.6	43
62	Photocatalytic and antibacterial activities of gold and silver nanoparticles synthesized using biomass of <i>Parkia roxburghii</i> leaf. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 154, 1-7.	3.8	111
63	Size-controlled synthesis of NiFe ₂ O ₄ nanospheres via a PEG assisted hydrothermal route and their catalytic properties in oxidation of alcohols by periodic acid. <i>Applied Surface Science</i> , 2016, 370, 469-475.	6.1	36
64	Cetyltrimethylammonium Bromide Promoted Size-Tuning Synthesis of Rod-Like V ₂ O ₅ Nanoparticles and Their Catalytic Studies in Oxidative Esterification of Aldehydes. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 173-180.	0.4	1
65	Facile Synthesis of CuBi ₂ O ₄ Microspheres for Catalytic Oxidation of Alcohols Photocatalyst and Supercapacitor Applications. <i>Energy and Environment Focus</i> , 2016, 5, 274-286.	0.3	0
66	Facile synthesis of Î±-Fe ₂ O ₃ nanoparticles and their catalytic activity in oxidation of benzyl alcohols with periodic acid. <i>Catalysis Communications</i> , 2015, 69, 48-54.	3.3	31
67	Green synthesis of gold nanoparticles using <i>Pogestemon benghalensis</i> (B) O. Ktz. leaf extract and studies of their photocatalytic activity in degradation of methylene blue. <i>Materials Letters</i> , 2015, 148, 37-40.	2.6	105
68	Facile synthesis of spinel CuCr ₂ O ₄ nanoparticles and studies of their photocatalytic activity in degradation of some selected organic dyes. <i>Journal of Alloys and Compounds</i> , 2015, 648, 629-635.	5.5	52
69	Gold nanoparticle catalyzed intramolecular C-S bond formation/C-H bond functionalization/cyclization cascades. <i>RSC Advances</i> , 2015, 5, 57433-57436.	3.6	10
70	Hexamethonium bis(tribromide) (HMBTB) a recyclable and high bromine containing reagent. <i>Tetrahedron Letters</i> , 2015, 56, 5646-5650.	1.4	8
71	Green synthesis of silver nanoparticles using dried biomass of <i>Diplazium esculentum</i> (retz.) sw. and studies of their photocatalytic and anticoagulative activities. <i>Journal of Molecular Liquids</i> , 2015, 212, 813-817.	4.9	39
72	Novel Metal- and Mineral-Acid-Free Synthesis of Organic Ammonium Tribromides and Application of Ethylenephenanthrolium Bistribromide for Bromination of Active Methylene Group of 1,3-Diketones and Î²-Ketoesters. <i>Synthetic Communications</i> , 2015, 45, 714-726.	2.1	3

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73	Novel Protocol for the Synthesis of Organic Ammonium Tribromides and Investigation of 1,1â€²-(Ethane-1,2-diyl)dipiperidinium Bis(tribromide) in the Silylation of Alcohols and Thiols. Chemistry Letters, 2014, 43, 1545-1547.	1.3	7