

Pankaj Bharali

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

1,929
citations

25
h-index

42
g-index

80
ext. papers

2,182
ext. citations

3.6
avg, IF

5.22
L-index

#	Paper	IF	Citations
75	Removal of Persistent Organic Pollutants Using Redox Active Metal Oxide Nanocatalysts via Advanced Oxidation Process. <i>Environmental Chemistry for A Sustainable World</i> , 2022 , 215-240	0.8	0
74	Oxygen deficient interfacial effect in CeO ₂ -modified Fe ₂ O ₃ /C for oxygen reduction reaction in alkaline electrolyte. <i>Catalysis Communications</i> , 2022 , 164, 106432	3.2	0
73	Enhancing the electrocatalytic activity via hybridization of Cu(I/II) oxides with Co ₃ O ₄ towards oxygen electrode reactions. <i>Journal of Power Sources</i> , 2021 , 490, 229511	8.9	9
72	Pd ₂ CuCo/C Hybrid with Nanoflower Morphology toward Oxygen Reduction and Formic Acid Oxidation Reactions: Experimental and Computational Studies. <i>Energy & Fuels</i> , 2021 , 35, 11515-11524	4.1	5
71	Unraveling the Role of CeO ₂ in Stabilization of Multivalent Mn Species on MnO ₂ /Mn ₃ O ₄ /CeO ₂ /C Surface for Enhanced Electrocatalysis. <i>Energy & Fuels</i> , 2021 , 35, 10756-10769	4.1	7
70	Boosting the electrocatalytic activity of Pd/C by Cu alloying: Insight on Pd/Cu composition and reaction pathway. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 446-456	9.3	13
69	Graphitic Carbon Nitride with Extraordinary Photocatalytic Activity Under Visible Light Irradiation. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2021 , 423-441	0.2	1
68	Nonprecious Hybrid Metal Oxide for Bifunctional Oxygen Electrodes: Endorsing the Role of Interfaces in Electrocatalytic Enhancement. <i>Energy & Fuels</i> , 2021 , 35, 13370-13381	4.1	1
67	Sustainable nano fibrillated cellulose supported in situ biogenic Pd nanoparticles as heterogeneous catalyst for C-C cross coupling reactions. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 23, 100502	3.9	0
66	Pd Nanoparticles-Loaded Honeycomb-Structured Bio-nanocellulose as a Heterogeneous Catalyst for Heteroaryl Cross-Coupling Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 954-966	8.3	9
65	3d-Metal Oxide Nanostructures for Oxygen Electrocatalysis. <i>ACS Symposium Series</i> , 2020 , 353-372	0.4	0
64	Direct Hydrogenation of Nitroaromatics at Room Temperature Catalyzed by Magnetically Recoverable Cu@Fe ₂ O ₃ Nanoparticles. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5753	3.1	3
63	Unravelling the Role of Metallic Cu in Cu-CuFe ₂ O ₄ /C Nanohybrid for Enhanced Oxygen Reduction Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3488-3496	6.1	12
62	Highly dispersed Mn ₂ O ₃ /Co ₃ O ₄ nanostructures on carbon matrix as heterogeneous Fenton-like catalyst. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5512	3.1	3
61	GENESIS AND STRUCTURAL PROPERTIES OF (Ce _{1-x} M _x 0.8Ni _{0.2} O _y (M = La, Mg) OXIDES. <i>Journal of Structural Chemistry</i> , 2020 , 61, 1080-1089	0.9	5
60	Liver injury in COVID-19: The hepatic aspect of the respiratory syndrome - what we know so far. <i>World Journal of Hepatology</i> , 2020 , 12, 1182-1197	3.4	12
59	Elucidating the Role of Oxide-Oxide/Carbon Interfaces of CuO-CeO ₂ /C in Boosting Electrocatalytic Performance. <i>Langmuir</i> , 2020 , 36, 15141-15152	4	9

58	Binary Fe ₂ O ₃ /Co ₃ O ₄ nanostructures for advanced oxidation process: Role of synergy for enhanced catalysis. <i>Applied Organometallic Chemistry</i> , 2020 , 34, e5920	3.1	1
57	Bimetallic Palladium-Nickel Nanoparticles Anchored on Carbon as High-Performance Electrocatalysts for Oxygen Reduction and Formic Acid Oxidation Reactions. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9285-9295	6.1	13
56	Unique Half Embedded/Exposed PdFeCu/C Interfacial Nanoalloy as High-Performance Electrocatalyst for Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2019 , 11, 3522-3529	5.2	6
55	Hydrothermal Synthesis of g-C ₃ N ₄ /NiFe ₂ O ₄ Nanocomposite and Its Enhanced Photocatalytic Activity. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e5002	3.1	19
54	Effect of Preparation Methods on the Physicochemical and Functional Properties of Ni/CeO ₂ Catalysts. <i>Kinetics and Catalysis</i> , 2019 , 60, 221-230	1.5	9
53	Palladium-Based Hybrid Nanocatalysts 2019 , 565-583		1
52	Metal and Metal Oxide-Based Nanomaterials for Electrochemical Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2019 , 499-530	0.8	
51	Cu-Based Nanoparticles as Emerging Environmental Catalysts. <i>Chemical Record</i> , 2019 , 19, 462-473	6.6	17
50	Novel g-C ₃ N ₄ /graphene/NiFe ₂ O ₄ nanocomposites as magnetically separable visible light driven photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 382, 111960	4.7	29
49	Effect of Substrates on Catalytic Activity of Biogenic Palladium Nanoparticles in C-C Cross-Coupling Reactions. <i>ACS Omega</i> , 2019 , 4, 3329-3340	3.9	30
48	Cubic Mn ₂ O ₃ nanoparticles on carbon as bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Molecular Catalysis</i> , 2018 , 451, 153-160	3.3	48
47	Spherical CuO Nanoparticles as Catalyst for Chan-Lam Cross-Coupling Reaction under Base Free Condition. <i>Catalysis Letters</i> , 2018 , 148, 547-554	2.8	14
46	Transition metal oxide nanocatalysts for oxygen reduction reaction. <i>Materials Science for Energy Technologies</i> , 2018 , 1, 117-128	5.2	76
45	Control of Ni/Ce _{1-x} M _x O _y Catalyst Properties Via the Selection of Dopant M = Gd, La, Mg. Part 1. Physicochemical Characteristics. <i>Eurasian Chemico-Technological Journal</i> , 2018 , 283	0.8	3
44	Control of Ni/Ce _{1-x} M _x O _y Catalyst Properties Via the Selection of Dopant M = Gd, La, Mg. Part 2. Catalytic Activity. <i>Eurasian Chemico-Technological Journal</i> , 2018 , 293	0.8	1
43	Regioselective C ^H and N ^H functionalization of purine derivatives and analogues: a synthetic and mechanistic perspective. <i>Catalysis Science and Technology</i> , 2018 , 8, 6029-6056	5.5	9
42	Cobalt-Copper Nanoparticles Catalyzed Selective Oxidation Reactions: Efficient Catalysis at Room Temperature. <i>ChemistrySelect</i> , 2018 , 3, 9826-9832	1.8	8
41	Greener Biogenic Approach for the Synthesis of Palladium Nanoparticles Using Papaya Peel: An Eco-Friendly Catalyst for C-C Coupling Reaction. <i>ACS Omega</i> , 2018 , 3, 5327-5335	3.9	40

40	Comparative Study of Potassium Salt-Loaded MgAl Hydrotalcites for the Knoevenagel Condensation Reaction. <i>ACS Omega</i> , 2018 , 3, 7086-7095	3.9	11
39	PdCu Nanoparticles Stabilized on Porous CeO ₂ for Catalytic Degradation of Azo Dyes: Structural Characterization and Kinetic Studies. <i>ChemistrySelect</i> , 2017 , 2, 2123-2130	1.8	4
38	A Simple Chemical Route toward High Surface Area CeO ₂ Nanoparticles Displaying Remarkable Radical Scavenging Activity. <i>ChemistrySelect</i> , 2017 , 2, 3369-3375	1.8	9
37	Structural and morphological properties of Ce _{1-x} M _x O _y (M = Gd, La, Mg) supports for the catalysts of autothermal ethanol conversion. <i>Journal of Structural Chemistry</i> , 2017 , 58, 126-134	0.9	11
36	Nickel-catalyzed reductive defunctionalization of esters and amides to aromatic hydrocarbons. <i>New Journal of Chemistry</i> , 2017 , 41, 13211-13214	3.6	3
35	<i>Impatiens pyrorrhiza</i> sp. nov. (Balsaminaceae) from east Himalaya. <i>Nordic Journal of Botany</i> , 2017 , 35, 411-416	1.1	4
34	Room Temperature Reduction of Nitroaromatics Using Pd Nanoparticles Stabilized on Nano-CeO ₂ . <i>ChemistrySelect</i> , 2017 , 2, 10524-10530	1.8	6
33	Catalytic Reduction of Water Contaminant 4-Nitrophenol over Manganese Oxide Supported Ni Nanoparticles 2017 , 35-48		5
32	Enhanced catalytic activity of CuPd alloy nanoparticles towards reduction of nitroaromatics and hexavalent chromium. <i>Journal of Colloid and Interface Science</i> , 2017 , 486, 46-57	9.3	49
31	Influence of Ni on enhanced catalytic activity of Cu/Co ₃ O ₄ towards reduction of nitroaromatic compounds: studies on the reduction kinetics. <i>RSC Advances</i> , 2016 , 6, 71517-71528	3.7	23
30	Starch assisted palladium(0) nanoparticles as in situ generated catalysts for room temperature Suzuki-Miyaura reactions in water. <i>RSC Advances</i> , 2016 , 6, 11758-11762	3.7	30
29	Porous CuO nanostructure as a reusable catalyst for oxidative degradation of organic water pollutants. <i>New Journal of Chemistry</i> , 2016 , 40, 348-357	3.6	44
28	Phytochemical assisted synthesis of size and shape tunable gold nanoparticles and assessment of their catalytic activities. <i>RSC Advances</i> , 2016 , 6, 49307-49316	3.7	15
27	Heterostructured Ni/Mn ₂ O ₃ as Highly Active Catalyst for Aqueous Phase Reduction Reactions. <i>ChemistrySelect</i> , 2016 , 1, 4726-4735	1.8	7
26	Influence of CuO morphology on the enhanced catalytic degradation of methylene blue and methyl orange. <i>RSC Advances</i> , 2016 , 6, 95292-95305	3.7	39
25	Synthesis of high surface area mixed metal oxide from the NiMgAl LDH precursor for nitro-aldol condensation reaction. <i>New Journal of Chemistry</i> , 2015 , 39, 172-178	3.6	21
24	In situ generated copper nanoparticle catalyzed reduction of 4-nitrophenol. <i>New Journal of Chemistry</i> , 2014 , 38, 1789	3.6	171
23	Reductive conversion of Cr(VI) to Cr(III) over bimetallic CuNi nanocrystals at room temperature. <i>New Journal of Chemistry</i> , 2014 , 38, 2748	3.6	31

22	Surfactant-free synthesis of CuNi nanocrystals and their application for catalytic reduction of 4-nitrophenol. <i>Journal of Molecular Catalysis A</i> , 2014 , 390, 29-36		44
21	Enhancement in CO oxidation activity of nanosized $Ce_xZr_{1-x}O_2$ solid solutions by incorporation of additional dopants. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 327-336	6.3	23
20	Preparation of highly dispersed and thermally stable nanosized cerium-hafnium solid solutions over silica surface: Structural and catalytic evaluation. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 1128-1135	6.3	18
19	Monolayer V_2O_5/TiO_2-ZrO_2 catalysts for selective oxidation of o-xylene: preparation and characterization. <i>Research on Chemical Intermediates</i> , 2012 , 38, 733-744	2.8	7
18	Large-scale synthesis of ceria-based nano-oxides with high CO oxidation activity. <i>Catalysis Science and Technology</i> , 2012 , 2, 931	5.5	31
17	Capacitive behavior of amorphous and crystalline RuO_2 composite electrode fabricated by spark plasma sintering technique. <i>Journal of Power Sources</i> , 2011 , 196, 7878-7881	8.9	10
16	Supported copper-ceria catalysts for low temperature CO oxidation. <i>Catalysis Communications</i> , 2010 , 11, 863-866	3.2	66
15	Highly dispersed ceria and ceria-zirconia nanocomposites over silica surface for catalytic applications. <i>Catalysis Today</i> , 2009 , 141, 109-114	5.3	31
14	Thermal Stability and Dispersion Behavior of Nanostructured $Ce_xZr_{1-x}O_2$ Mixed Oxides over Anatase- TiO_2 : A Combined Study of CO Oxidation and Characterization by XRD, XPS, TPR, HREM, and UV-Vis DRS. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 453-462	3.9	38
13	Physicochemical Characteristics and Catalytic Activity of Alumina-Supported Nanosized Ceria-zirconia Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2452-2462	3.8	47
12	Copper Promoted Cobalt and Nickel Catalysts Supported on Ceria-Alumina Mixed Oxide: Structural Characterization and CO Oxidation Activity. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8478-8486	3.9	76
11	Structural Characterization and Catalytic Activity of Nanosized $Ce_{1-x}M_xO_2$ (M = Zr and Hf) Mixed Oxides. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11729-11737	3.8	137
10	Structural Characterization and Catalytic Activity of Nanosized Ceria-zirconia Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16393-16399	3.8	66
9	Catalytic Efficiency of Ceria-zirconia and Ceria-hafnia Nanocomposite Oxides for Soot Oxidation. <i>Catalysis Letters</i> , 2008 , 123, 327-333	2.8	74
8	Surfactant-Controlled and Microwave-Assisted Synthesis of Highly Active $Ce_xZr_{1-x}O_2$ Nano-Oxides for CO Oxidation. <i>Catalysis Letters</i> , 2008 , 126, 125-133	2.8	17
7	Highly Dispersed $Ce_xZr_{1-x}O_2$ Nano-Oxides Over Alumina, Silica and Titania Supports for Catalytic Applications. <i>Catalysis Surveys From Asia</i> , 2008 , 12, 214-228	2.8	22
6	Influence of Alumina, Silica, and Titania Supports on the Structure and CO Oxidation Activity of $Ce_xZr_{1-x}O_2$ Nanocomposite Oxides. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10478-10483	3.8	67
5	Hafnium Doped Ceria Nanocomposite Oxide as a Novel Redox Additive for Three-Way Catalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1878-1881	3.8	114

4	Silica supported ceria and ceria/zirconia nanocomposite oxides for selective dehydration of 4-methylpentan-2-ol. <i>Journal of Molecular Catalysis A</i> , 2007 , 275, 167-173	33
3	Dehydration of 4-methylpentan-2-ol over $CexZr1-xO_2/SiO_2$ nano-composite catalyst. <i>Journal of Molecular Catalysis A</i> , 2006 , 258, 355-360	25
2	Characterization and catalytic activity of $V_2O_5/Al_2O_3-TiO_2$ for selective oxidation of 4-methylisole. <i>Journal of Molecular Catalysis A</i> , 2006 , 253, 44-51	85
1	Oxygen Reduction Reaction Catalysed by Supported Nanoparticles: Advancements and Challenges. <i>ChemCatChem</i> ,	5.2 1