

Ankush V Biradar

List of Publications by Year in descending order

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71
papers

3,004
citations

186209

28
h-index

168321

53
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77
all docs

77
docs citations

77
times ranked

5001
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#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> fabricated MOF@cellulose composite as an advanced ROS deactivator-convertor: fluoroswitchable bi-phasic tweezers for free chlorine detoxification and size-exclusive catalytic insertion of aqueous H_2O_2 . Journal of Materials Chemistry A, 2022, 10, 4316-4332.	5.2	19
2	Recent developments in state-of-the-art silica-modified catalysts for the fixation of CO_2 in epoxides to form organic carbonates. Sustainable Energy and Fuels, 2022, 6, 1198-1248.	2.5	22
3	An Earth-abundant cobalt based photocatalyst: visible light induced direct (het)arene C-H arylation and CO_2 capture. Dalton Transactions, 2022, 51, 2452-2463.	1.6	5
4	Niobium Oxide Supported on Cubic Spinel Cobalt Oxide as an Efficient Heterogeneous Catalyst for the Synthesis of Imines via Dehydrogenative Coupling of Amines and Alcohols. Catalysis Letters, 2022, 152, 3733-3746.	1.4	2
5	Chemoselective isomerization of α -Pinene oxide to trans-Carveol by robust and mild Brønsted acidic zirconium phosphate catalyst. Molecular Catalysis, 2022, 521, 112189.	1.0	8
6	Highly active and scalable SO ₃ H functionalized carbon catalyst synthesized from bagasse for transformation of bio-based platform chemicals into fuel precursors and its in-depth characterization studies. Fuel, 2022, 321, 124008.	3.4	13
7	Highly regioselective tandem hydroformylation of substituted styrene using Iminophosphine rhodium complex immobilized on carbon. Journal of Industrial and Engineering Chemistry, 2022, 112, 218-232.	2.9	7
8	Fundamental concepts on surface chemistry for nanoparticle modifications. , 2022, , 29-52.		0
9	Cellulose@PO ₃ H: As an Efficient and Recyclable Ionic Liquid-Enabled Catalytic Greener Approach to One-Step Synthesis of Flavoring Ketones. ACS Sustainable Chemistry and Engineering, 2022, 10, 8526-8538.	3.2	5
10	Electrocatalytic and catalytic CO ₂ hydrogenation on ZnO/g-C ₃ N ₄ hybrid nanoelectrodes. Applied Surface Science, 2021, 538, 148120.	3.1	28
11	Sustainable Isomerization of α -Pinene Oxide to trans-Carveol using Formic Acid/Aniline System at Room Temperature. Advanced Sustainable Systems, 2021, 5, 2000212.	2.7	6
12	Exceptional Catalytic Activity of Cu ²⁺ /Zn/ZrO ₂ Mixed Metal Oxide towards the Oxidation Reaction. ChemistrySelect, 2021, 6, 3814-3821.	0.7	3
13	Cubic CuxZrO _{100-x} as an efficient and selective catalyst for the oxidation of aromatics active methyl, alcohol, and amine groups. Polyhedron, 2021, 200, 115129.	1.0	3
14	Efficient and recyclable solid acid-catalyzed alkylation of active methylene compound via oxonium intermediate for atom economical synthesis of organic compounds. Research on Chemical Intermediates, 2021, 47, 3691-3703.	1.3	8
15	Highly efficient manganese oxide decorated graphitic carbon nitride electrocatalyst for reduction of CO ₂ to formate. Catalysis Today, 2021, 370, 104-113.	2.2	12
16	Brønsted acidic cellulose-PO ₃ H: An efficient catalyst for the chemoselective synthesis of fructones and trans-esterification via condensation of acetoacetic esters with alcohols and diols. Molecular Catalysis, 2021, 515, 111912.	1.0	6
17	Black yet green: Sulfonic acid functionalized carbon as an efficient catalyst for highly selective isomerization of α -pinene oxide to trans-carveol. Applied Catalysis B: Environmental, 2020, 268, 118456.	10.8	42
18	Sustainable route for the synthesis of flower-like Ni@N-doped carbon nanosheets from bagasse and its catalytic activity towards reductive amination of nitroarenes with bio-derived aldehydes. New Journal of Chemistry, 2020, 44, 18714-18723.	1.4	25

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19	Chitosan supported molybdate nanoclusters as an efficient catalyst for oxidation of alkenes and alcohols. Cellulose, 2020, 27, 8769-8783.	2.4	8
20	Phosphonate functionalized carbon spheres as Brønsted acid catalysts for the valorization of bio-renewable α -pinene oxide to <i>trans</i> -carveol. Dalton Transactions, 2020, 49, 7210-7217.	1.6	24
21	Gram-Scale Synthesis of Flavoring Ketones in One Pot via Alkylation–Decarboxylation on Benzylic Carbon Using a Commercial Solid Acid Catalyst. ACS Omega, 2020, 5, 14291-14296.	1.6	12
22	Bio-waste chitosan-derived N-doped CNT-supported Ni nanoparticles for selective hydrogenation of nitroarenes. Dalton Transactions, 2020, 49, 10431-10440.	1.6	40
23	Bismuth Oxide Decorated Graphene Oxide Hybrids for Catalytic and Electrocatalytic Reduction of CO ₂ . Chemistry - A European Journal, 2020, 26, 8801-8809.	1.7	21
24	Surfactant-Assisted Selective Oxidation of Aromatic Amines to Nitro Compounds by in Situ-Formed Performic Acid. ACS Omega, 2019, 4, 9453-9457.	1.6	15
25	Stabilization of palladium nanoparticles on chitosan derived N-doped carbon for hydrogenation of various functional groups. Applied Surface Science, 2019, 487, 1307-1315.	3.1	35
26	Utilization of Waste Biomass for the Synthesis of Functionalizable Support for Covalent Anchoring of Active Organo Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 3018-3026.	3.2	26
27	Nitrogen-rich graphitic-carbon stabilized cobalt nanoparticles for chemoselective hydrogenation of nitroarenes at milder conditions. Inorganic Chemistry Frontiers, 2018, 5, 806-813.	3.0	32
28	Cucurbit[6]uril-Stabilized Palladium Nanoparticles as a Highly Active Catalyst for Chemoselective Hydrogenation of Various Reducible Groups in Aqueous Media. ChemistrySelect, 2017, 2, 9911-9919.	0.7	35
29	Environmentally Benign Bioderived Carbon Microspheres-Supported Molybdena Nanoparticles as Catalyst for the Epoxidation Reaction. ACS Sustainable Chemistry and Engineering, 2017, 5, 904-910.	3.2	19
30	Budding trends in integrated pest management using advanced micro- and nano-materials: Challenges and perspectives. Journal of Environmental Management, 2016, 184, 157-169.	3.8	86
31	Calcium phosphate nanocapsule crowned multiwalled carbon nanotubes for pH triggered intracellular anticancer drug release. Journal of Materials Chemistry B, 2015, 3, 3931-3939.	2.9	20
32	Silica microspheres containing high density surface hydroxyl groups as efficient epoxidation catalysts. RSC Advances, 2015, 5, 21125-21131.	1.7	11
33	Bio-physical evaluation and in vivo delivery of plant proteinase inhibitor immobilized on silica nanospheres. Colloids and Surfaces B: Biointerfaces, 2015, 130, 84-92.	2.5	11
34	A trifunctional mesoporous silica-based, highly active catalyst for one-pot, three-step cascade reactions. Chemical Communications, 2015, 51, 8496-8499.	2.2	54
35	Core–shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. Chemical Society Reviews, 2015, 44, 7540-7590.	18.7	906
36	Highly loaded well dispersed stable Ni species in NiMg ₂ AlOY nanocomposites: Application to hydrogen production from bioethanol. Applied Catalysis B: Environmental, 2015, 166-167, 485-496.	10.8	29

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37	Palladium Nanoparticles Supported on Magnesium Hydroxide Fluorides: A Selective Catalyst for Olefin Hydrogenation. <i>ChemCatChem</i> , 2014, 6, 3182-3191.	1.8	16
38	One-pot synthesis of ultrasmall MoO ₃ nanoparticles supported on SiO ₂ , TiO ₂ , and ZrO ₂ nanospheres: an efficient epoxidation catalyst. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19060-19066.	5.2	53
39	New polyoxomolybdate compounds synthesized in situ using ionic liquid 1-butyl-3-methyl-imidazolium tetrafluoroborate as green solvent. <i>New Journal of Chemistry</i> , 2013, 37, 2894.	1.4	17
40	Isolation, Characterization, and Identification of Catalytically Active Species in the MoO ₃ /SiO ₂ Catalyst during Solid Acid Catalyzed Reactions. <i>ChemCatChem</i> , 2013, 5, 1531-1537.	1.8	11
41	Biocompatibility of Calcined Mesoporous Silica Particles with Ventricular Myocyte Structure and Function. <i>Chemical Research in Toxicology</i> , 2013, 26, 26-36.	1.7	8
42	Selective Oxidation of Nonrefractory and Refractory Sulfides by Cyclopentadienyl Molybdenum Acetylide Complexes as Efficient Catalysts. <i>Catalysis Letters</i> , 2012, 142, 1352-1360.	1.4	7
43	Nanosized gold-catalyzed selective oxidation of alkyl-substituted benzenes and n-alkanes. <i>Applied Catalysis A: General</i> , 2012, 435-436, 19-26.	2.2	47
44	In vitro biocompatibility of calcined mesoporous silica particles and fetal blood cells. <i>International Journal of Nanomedicine</i> , 2012, 7, 3111.	3.3	13
45	A new layered metal-organic framework as a promising heterogeneous catalyst for olefin epoxidation reactions. <i>Chemical Communications</i> , 2012, 48, 6541.	2.2	151
46	Near-IR Absorbing Solar Cell Sensitized With Bacterial Photosynthetic Membranes. <i>Photochemistry and Photobiology</i> , 2012, 88, 1467-1472.	1.3	26
47	Assembling Nanostructures for Effective Catalysis: Supported Palladium Nanoparticle Multicores Coated by a Hollow and Nanoporous Zirconia Shell. <i>ChemSusChem</i> , 2012, 5, 132-139.	3.6	34
48	Aminotroponate/Aminotroponimate Zinc Complexes Functionalized Mesoporous Silica Catalysts for Intramolecular Hydroamination of Non-Activated Alkenes with Varied Steric and Electronic Properties. <i>ACS Catalysis</i> , 2011, 1, 736-750.	5.5	27
49	Au/SBA-15-Based Robust and Convenient-to-Use Nanopowder Material for Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22810-22817.	1.5	28
50	Silica-Dendrimer Core-Shell Microspheres with Encapsulated Ultrasmall Palladium Nanoparticles: Efficient and Easily Recyclable Heterogeneous Nanocatalysts. <i>Langmuir</i> , 2011, 27, 14408-14418.	1.6	58
51	Bifunctional Mesoporous Silica Catalyst for C-C Bond Forming Tandem Reactions. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3174-3182.	1.0	39
52	In Vitro Study and Biocompatibility of Calcined Mesoporous Silica Microparticles in Mouse Lung. <i>Toxicological Sciences</i> , 2011, 122, 86-99.	1.4	24
53	Controlled Synthesis of Water-Dispersible Faceted Crystalline Copper Nanoparticles and Their Catalytic Properties. <i>Chemistry - A European Journal</i> , 2010, 16, 10735-10743.	1.7	92
54	Continuous Henry reaction to a specific product over nanoporous silica-supported amine catalysts on fixed bed reactor. <i>Applied Catalysis A: General</i> , 2010, 389, 19-26.	2.2	18

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55	Trimming Nanostructured Walls While Fluorinating their Surfaces: A Route to Making and Widening Pores of Nanoporous Materials and Efficient Catalysts. Chemistry of Materials, 2010, 22, 4950-4963.	3.2	9
56	Biocompatibility of Calcined Mesoporous Silica Particles with Cellular Bioenergetics in Murine Tissues. Chemical Research in Toxicology, 2010, 23, 1796-1805.	1.7	33
57	Silica nanosphere-supported shaped Pd nanoparticles encapsulated with nanoporous silica shell: Efficient and recyclable nanocatalysts. Journal of Materials Chemistry, 2010, 20, 7834.	6.7	75
58	Efficient solid-base catalysts for aldol reaction by optimizing the density and type of organoamine groups on nanoporous silica. Journal of Catalysis, 2009, 265, 131-140.	3.1	62
59	Selective oxidation of aromatic primary alcohols to aldehydes using molybdenum acetylide oxo-peroxo complex as catalyst. Tetrahedron Letters, 2009, 50, 2885-2888.	0.7	81
60	Synthesis of Catalytically Active Porous Platinum Nanoparticles by Transmetallation Reaction and Proposition of the Mechanism. Small, 2009, 5, 1467-1473.	5.2	39
61	Solvent-washable polymer templated synthesis of mesoporous materials and solid-acid nanocatalysts in one-pot. Chemical Communications, 2009, , 6201.	2.2	7
62	Acetalization of glycerol using mesoporous MoO ₃ /SiO ₂ solid acid catalyst. Journal of Molecular Catalysis A, 2009, 310, 150-158.	4.8	135
63	Selective N-oxidation of aromatic amines to nitroso derivatives using a molybdenum acetylide oxo-peroxo complex as catalyst. Tetrahedron Letters, 2008, 49, 3616-3619.	0.7	48
64	Selective cis-dihydroxylation of olefins using recyclable homogeneous molybdenum acetylide catalyst. Journal of Molecular Catalysis A, 2008, 285, 111-119.	4.8	47
65	Magnesium Perchlorate: An Efficient Catalyst for One-Pot Synthesis of Pyrano- and Furanoquinolines. Synlett, 2007, 2007, 1379-1382.	1.0	16
66	Vapor phase nitration of benzene using mesoporous MoO ₃ /SiO ₂ solid acid catalyst. Green Chemistry, 2006, 8, 488.	4.6	49
67	Regioselective nitration of cumene to 4-nitro cumene using nitric acid over solid acid catalyst. Catalysis Communications, 2006, 7, 394-398.	1.6	16
68	An efficient method for the synthesis of acylals from aldehydes using silica-supported perchloric acid (HClO ₄ •SiO ₂). Tetrahedron Letters, 2006, 47, 5573-5576.	0.7	47
69	Practical and General Method for Direct Synthesis of Alkyl Fluorides from Alcohols under Mild Conditions.. ChemInform, 2006, 37, no.	0.1	0
70	Transesterification of diethyl oxalate with phenol using MoO ₃ /SiO ₂ catalyst. Applied Catalysis A: General, 2005, 285, 190-195.	2.2	62
71	Practical and General Method for Direct Synthesis of Alkyl Fluorides from Alcohols under Mild Conditions. Monatshefte für Chemie, 2005, 136, 1579-1582.	0.9	8