# Ankush V Biradar

List of Publications by Year
in descending order

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| 71 | 3,004 | 186209 | 168321 |
|---|---|---|---|
| papers | citations | 28 h-index | 53 g-index |

| 77 | 77 | 77 | 5001 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Coreâ€“shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. Chemical Society Reviews, 2015, 44, 7540-7590. | 18.7 | 906 |
| 2 | A new layered metalâ€“organic framework as a promising heterogeneous catalyst for olefin epoxidation reactions. Chemical Communications, 2012, 48, 6541. | 2.2 | 151 |
| 3 | Acetalization of glycerol using mesoporous MoO3/SiO2 solid acid catalyst. Journal of Molecular Catalysis A, 2009, 310, 150-158. | 4.8 | 135 |
| 4 | Controlled Synthesis of Waterâ€Dispersible Faceted Crystalline Copper Nanoparticles and Their Catalytic Properties. Chemistry - A European Journal, 2010, 16, 10735-10743. | 1.7 | 92 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | Transesterification of diethyl oxalate with phenol using MoO3/SiO2 catalyst. Applied Catalysis A: General, 2005, 285, 190-195. | 2.2 | 62 |
| 9 | 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 |
| 10 | Silicaâ€“Dendrimer Coreâ€“Shell Microspheres with Encapsulated Ultrasmall Palladium Nanoparticles: Efficient and Easily Recyclable Heterogeneous Nanocatalysts. Langmuir, 2011, 27, 14408-14418. | 1.6 | 58 |
| 11 | A trifunctional mesoporous silica-based, highly active catalyst for one-pot, three-step cascade reactions. Chemical Communications, 2015, 51, 8496-8499. | 2.2 | 54 |
| 12 | One-pot synthesis of ultrasmall MoO<sub>3</sub> nanoparticles supported on SiO<sub>2</sub>, TiO<sub>2</sub>, and ZrO<sub>2</sub> nanospheres: an efficient epoxidation catalyst. Journal of Materials Chemistry A, 2014, 2, 19060-19066. | 5.2 | 53 |
| 13 | Vapor phase nitration of benzene using mesoporous MoO3/SiO2 solid acid catalyst. Green Chemistry, 2006, 8, 488. | 4.6 | 49 |
| 14 | 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 |
| 15 | An efficient method for the synthesis of acylals from aldehydes using silica-supported perchloric acid (HClO4â€“SiO2). Tetrahedron Letters, 2006, 47, 5573-5576. | 0.7 | 47 |
| 16 | Selective cis-dihydroxylation of olefins using recyclable homogeneous molybdenum acetylide catalyst. Journal of Molecular Catalysis A, 2008, 285, 111-119. | 4.8 | 47 |
| 17 | Nanosized gold-catalyzed selective oxidation of alkyl-substituted benzenes and n-alkanes. Applied Catalysis A: General, 2012, 435-436, 19-26. | 2.2 | 47 |
| 18 | Black yet green: Sulfonic acid functionalized carbon as an efficent catalyst for highly selective isomerization of Î±-pinene oxide to trans-carveol. Applied Catalysis B: Environmental, 2020, 268, 118456. | 10.8 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Bio-waste chitosan-derived N-doped CNT-supported Ni nanoparticles for selective hydrogenation of nitroarenes. Dalton Transactions, 2020, 49, 10431-10440. | 1.6 | 40 |
| 20 | Synthesis of Catalytically Active Porous Platinum Nanoparticles by Transmetallation Reaction and Proposition of the Mechanism. Small, 2009, 5, 1467-1473. | 5.2 | 39 |
| 21 | Bifunctional Mesoporous Silica Catalyst for Câ€“C Bond Forming Tandem Reactions. European Journal of Inorganic Chemistry, 2011, 2011, 3174-3182. | 1.0 | 39 |
| 22 | 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 |
| 23 | 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 |
| 24 | Assembling Nanostructures for Effective Catalysis: Supported Palladium Nanoparticle Multicores Coated by a Hollow and Nanoporous Zirconia Shell. ChemSusChem, 2012, 5, 132-139. | 3.6 | 34 |
| 25 | Biocompatibility of Calcined Mesoporous Silica Particles with Cellular Bioenergetics in Murine Tissues. Chemical Research in Toxicology, 2010, 23, 1796-1805. | 1.7 | 33 |
| 26 | 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 |
| 27 | Highly loaded well dispersed stable Ni species in NiXMg2AlOY nanocomposites: Application to hydrogen production from bioethanol. Applied Catalysis B: Environmental, 2015, 166-167, 485-496. | 10.8 | 29 |
| 28 | Au/SBA-15-Based Robust and Convenient-to-Use Nanopowder Material for Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 22810-22817. | 1.5 | 28 |
| 29 | Electrocatalytic and catalytic CO2 hydrogenation on ZnO/g-C3N4 hybrid nanoelectrodes. Applied Surface Science, 2021, 538, 148120. | 3.1 | 28 |
| 30 | Aminotroponate/Aminotroponiminate Zinc Complexes Functionalized Mesoporous Silica Catalysts for Intramolecular Hydroamination of Non-Activated Alkenes with Varied Steric and Electronic Properties. ACS Catalysis, 2011, 1, 736-750. | 5.5 | 27 |
| 31 | Nearâ€IR Absorbing Solar Cell Sensitized With Bacterial Photosynthetic Membranes. Photochemistry and Photobiology, 2012, 88, 1467-1472. | 1.3 | 26 |
| 32 | 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 |
| 33 | 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 |
| 34 | In Vitro Study and Biocompatibility of Calcined Mesoporous Silica Microparticles in Mouse Lung. Toxicological Sciences, 2011, 122, 86-99. | 1.4 | 24 |
| 35 | Phosphonate functionalized carbon spheres as BrÃ¸nsted acid catalysts for the valorization of bio-renewable Î±-pinene oxide to trans-carveol. Dalton Transactions, 2020, 49, 7210-7217. | 1.6 | 24 |
| 36 | Recent developments in state-of-the-art silica-modified catalysts for the fixation of CO<sub>2</sub> in epoxides to form organic carbonates. Sustainable Energy and Fuels, 2022, 6, 1198-1248. | 2.5 | 22 |

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|---|---|---|---|
| 37 | Bismuthâ€Oxideâ€Decorated Graphene Oxide Hybrids for Catalytic and Electrocatalytic Reduction of CO<sub>2</sub>. Chemistry - A European Journal, 2020, 26, 8801-8809. | 1.7 | 21 |
| 38 | 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 |
| 39 | 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 |
| 40 | In situ fabricated MOFâ€“cellulose composite as an advanced ROS deactivator-convertor: fluoroswitchable bi-phasic tweezers for free chlorine detoxification and size-exclusive catalytic insertion of aqueous H<sub>2</sub>O<sub>2</sub>. Journal of Materials Chemistry A, 2022, 10, 4316-4332. | 5.2 | 19 |
| 41 | Continuous Henry reaction to a specific product over nanoporous silica-supported amine catalysts on fixed bed reactor. Applied Catalysis A: General, 2010, 389, 19-26. | 2.2 | 18 |
| 42 | New polyoxomolybdate compounds synthesized in situ using ionic liquid 1-butyl-3-methyl-imidazolium tetrafluoroborate as green solvent. New Journal of Chemistry, 2013, 37, 2894. | 1.4 | 17 |
| 43 | Regioselective nitration of cumene to 4-nitro cumene using nitric acid over solid acid catalyst. Catalysis Communications, 2006, 7, 394-398. | 1.6 | 16 |
| 44 | Magnesium Perchlorate: An Efficient Catalyst for One-Pot Synthesis of Pyrano- and Furanoquinolines. Synlett, 2007, 2007, 1379-1382. | 1.0 | 16 |
| 45 | Palladium Nanoparticles Supported on Magnesium Hydroxide Fluorides: A Selective Catalyst for Olefin Hydrogenation. ChemCatChem, 2014, 6, 3182-3191. | 1.8 | 16 |
| 46 | 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 |
| 47 | In vitro biocompatibility of calcined mesoporous silica particles and fetal blood cells. International Journal of Nanomedicine, 2012, 7, 3111. | 3.3 | 13 |
| 48 | Highly active and scalable SO3H 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 |
| 49 | Gram-Scale Synthesis of Flavoring Ketones in One Pot via Alkylationâ€“Decarboxylation on Benzylic Carbon Using a Commercial Solid Acid Catalyst. ACS Omega, 2020, 5, 14291-14296. | 1.6 | 12 |
| 50 | Highly efficient manganese oxide decorated graphitic carbon nitrite electrocatalyst for reduction of CO2 to formate. Catalysis Today, 2021, 370, 104-113. | 2.2 | 12 |
| 51 | Isolation, Characterization, and Identification of Catalytically Active Species in the MoO<sub>3</sub>/SiO<sub>2</sub> Catalyst during Solid Acid Catalyzed Reactions. ChemCatChem, 2013, 5, 1531-1537. | 1.8 | 11 |
| 52 | Silica microspheres containing high density surface hydroxyl groups as efficient epoxidation catalysts. RSC Advances, 2015, 5, 21125-21131. | 1.7 | 11 |
| 53 | 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 |
| 54 | 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 |

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|---|---|---|---|
| 55 | Practical and General Method for Direct Synthesis of Alkyl Fluorides from Alcohols under Mild Conditions. Monatshefte FÃ¼r Chemie, 2005, 136, 1579-1582. | 0.9 | 8 |
| 56 | Biocompatibility of Calcined Mesoporous Silica Particles with Ventricular Myocyte Structure and Function. Chemical Research in Toxicology, 2013, 26, 26-36. | 1.7 | 8 |
| 57 | Chitosan supported molybdate nanoclusters as an efficient catalyst for oxidation of alkenes and alcohols. Cellulose, 2020, 27, 8769-8783. | 2.4 | 8 |
| 58 | 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 |
| 59 | Chemoselective isomerization of Î±-Pinene oxide to trans-Carveol by robust and mild BrÃ¸nsted acidic zirconium phosphate catalyst. Molecular Catalysis, 2022, 521, 112189. | 1.0 | 8 |
| 60 | Solvent-washable polymer templated synthesis of mesoporous materials and solid-acid nanocatalysts in one-pot. Chemical Communications, 2009, , 6201. | 2.2 | 7 |
| 61 | Selective Oxidation of Nonrefractory and Refractory Sulfides by Cyclopentadienyl Molybdenum Acetylide Complexes as Efficient Catalysts. Catalysis Letters, 2012, 142, 1352-1360. | 1.4 | 7 |
| 62 | 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 |
| 63 | Sustainable Isomerization of Î±â€Pinene Oxide to transâ€Carveol using Formic Acid/Aniline System at Room Temperature. Advanced Sustainable Systems, 2021, 5, 2000212. | 2.7 | 6 |
| 64 | BrÃ¸nsted acidic cellulose-PO3H: 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 |
| 65 | An Earth-abundant cobalt based photocatalyst: visible light induced direct (het)arene Câ€“H arylation and CO<sub>2</sub> capture. Dalton Transactions, 2022, 51, 2452-2463. | 1.6 | 5 |
| 66 | Cellulose@PO<sub>3</sub>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 |
| 67 | Exceptional Catalytic Activity of Cuâ^'Zn/ZrO 2 Mixed Metal Oxide towards the Oxidation Reaction. ChemistrySelect, 2021, 6, 3814-3821. | 0.7 | 3 |
| 68 | Cubic CuxZrO100-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 |
| 69 | 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 |
| 70 | Practical and General Method for Direct Synthesis of Alkyl Fluorides from Alcohols under Mild Conditions.. ChemInform, 2006, 37, no. | 0.1 | 0 |
| 71 | Fundamental concepts on surface chemistry for nanoparticle modifications. , 2022, , 29-52. | | 0 |