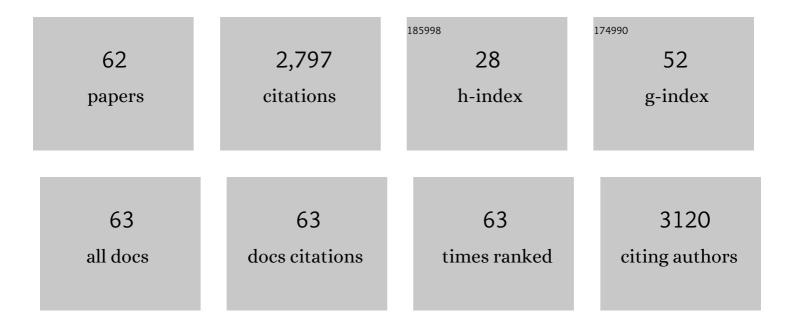
Rakesh K Sharma

List of Publications by Year in descending order

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PAKESH K SHADMA

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Fe ₃ O ₄ (iron oxide)-supported nanocatalysts: synthesis, characterization and applications in coupling reactions. Green Chemistry, 2016, 18, 3184-3209. | 4.6 | 342 |
| 2 | Recent development of covalent organic frameworks (COFs): synthesis and catalytic (organic-electro-photo) applications. Materials Horizons, 2020, 7, 411-454. | 6.4 | 291 |
| 3 | Silica-decorated magnetic nanocomposites for catalytic applications. Coordination Chemistry Reviews, 2015, 288, 118-143. | 9.5 | 268 |
| 4 | Silica-nanosphere-based organic–inorganic hybrid nanomaterials: synthesis, functionalization and applications in catalysis. Green Chemistry, 2015, 17, 3207-3230. | 4.6 | 191 |
| 5 | Preparation of Gold Nanoparticles Using Tea: A Green Chemistry Experiment. Journal of Chemical Education, 2012, 89, 1316-1318. | 1.1 | 122 |
| 6 | Magnetically separable silica@Fe3O4 core–shell supported nano-structured copper(II) composites as a versatile catalyst for the reduction of nitroarenes in aqueous medium at room temperature. Journal of Molecular Catalysis A, 2014, 393, 84-95. | 4.8 | 90 |
| 7 | Magnetite (Fe3O4) silica based organic–inorganic hybrid copper(ii) nanocatalyst: a platform for aerobic N-alkylation of amines. Green Chemistry, 2013, 15, 2800. | 4.6 | 83 |
| 8 | Silver nanomaterials: synthesis and (electro/photo) catalytic applications. Chemical Society Reviews, 2021, 50, 11293-11380. | 18.7 | 79 |
| 9 | Acetoacetanilide-functionalized Fe ₃ O ₄ nanoparticles for selective and cyclic removal of Pb ²⁺ ions from different charged wastewaters. Journal of Materials Chemistry A, 2014, 2, 12888-12898. | 5.2 | 66 |
| 10 | A straightforward one-pot synthesis of bioactive N-aryl oxazolidin-2-ones via a highly efficient Fe ₃ O ₄ @SiO ₂ -supported acetate-based butylimidazolium ionic liquid nanocatalyst under metal- and solvent-free conditions. Green Chemistry, 2017, 19, 3801-3812. | 4.6 | 62 |
| 11 | Maghemiteâ€Copper Nanocomposites: Applications for Ligandâ€Free Crossâ€Coupling (Câ^O, Câ^S, and Câ^N) Reactions. ChemCatChem, 2015, 7, 3495-3502. | 1.8 | 54 |
| 12 | Novel, efficient and recyclable silica based organic–inorganic hybrid Nickel catalyst for degradation of dye pollutants in a newly designed chemical reactor. Applied Catalysis B: Environmental, 2012, 125, 247-258. | 10.8 | 53 |
| 13 | Silica-Based Magnetic Manganese Nanocatalyst – Applications in the Oxidation of Organic Halides and Alcohols. ACS Sustainable Chemistry and Engineering, 2016, 4, 1123-1130. | 3.2 | 52 |
| 14 | Zirconium(IV)-modified silica@magnetic nanocomposites: Fabrication, characterization and application as efficient, selective and reusable nanocatalysts for Friedel–Crafts, Knoevenagel and Pechmann condensation reactions. Catalysis Communications, 2013, 35, 110-114. | 1.6 | 49 |
| 15 | Silica nanospheres supported diazafluorene iron complex: an efficient and versatile nanocatalyst for the synthesis of propargylamines from terminal alkynes, dihalomethane and amines. RSC Advances, 2014, 4, 49198-49211. | 1.7 | 45 |
| 16 | Silica-Coated Magnetic-Nanoparticle-Supported DABCO-Derived Acidic Ionic Liquid for the Efficient Synthesis of Bioactive 3,3-Di(indolyl)indolin-2-ones. ACS Omega, 2019, 4, 21529-21539. | 1.6 | 44 |
| 17 | Magnetically retrievable silica-based nickel nanocatalyst for Suzuki–Miyaura cross-coupling reaction. Catalysis Science and Technology, 2015, 5, 2728-2740. | 2.1 | 43 |
| 18 | Sustainable Synthesis of Nanoscale Zerovalent Iron Particles for Environmental Remediation. ChemSusChem, 2020, 13, 3288-3305. | 3.6 | 42 |

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|----|---|-----|-----------|
| 19 | Magnetic metal–organic framework composites: structurally advanced catalytic materials for organic transformations. Materials Advances, 2021, 2, 2153-2187. | 2.6 | 42 |
| 20 | Silica-supported molybdenum complex: A novel, selective and reusable organic–inorganic hybrid catalyst for eco-friendly oxidation of sulfides and olefins. Polyhedron, 2012, 45, 86-93. | 1.0 | 41 |
| 21 | Inorganic–organic hybrid silica based tin(II) catalyst: Synthesis, characterization and application in one-pot three-component Mannich reaction. Catalysis Communications, 2012, 19, 31-36. | 1.6 | 39 |
| 22 | Silica immobilized nickel complex: An efficient and reusable catalyst for microwave-assisted one-pot synthesis of dihydropyrimidinones. Inorganic Chemistry Communication, 2012, 17, 58-63. | 1.8 | 39 |
| 23 | Cross-dehydrogenative C(sp ³)–C(sp ³) coupling <i>via</i> C–H activation using magnetically retrievable ruthenium-based photoredox nanocatalyst under aerobic conditions. Chemical Communications, 2019, 55, 7402-7405. | 2.2 | 36 |
| 24 | Synthesis of Magnetic Nanoparticles Using Potato Extract for Dye Degradation: A Green Chemistry Experiment. Journal of Chemical Education, 2019, 96, 3038-3044. | 1.1 | 35 |
| 25 | Magnetically supported ionic liquids: a sustainable catalytic route for organic transformations. Materials Horizons, 2020, 7, 3097-3130. | 6.4 | 33 |
| 26 | Silica encapsulated magnetic nanoparticles-supported Zn(II) nanocatalyst: A versatile integration of excellent reactivity and selectivity for the synthesis of azoxyarenes, combined with facile catalyst recovery and recyclability. Applied Catalysis A: General, 2013, 454, 1-10. | 2.2 | 31 |
| 27 | Synthesis of Iron Oxide Palladium Nanoparticles and Their Catalytic Applications for Direct Coupling of Acyl Chlorides with Alkynes. ChemPlusChem, 2016, 81, 1312-1319. | 1.3 | 30 |
| 28 | Fabrication of Core–Shell-Structured Organic–Inorganic Hybrid Nanocatalyst for the Expedient Synthesis of Polysubstituted Oxazoles via Tandem Oxidative Cyclization Pathway. ACS Omega, 2017, 2, 2778-2791. | 1.6 | 29 |
| 29 | Expanding the Horizon of Multicomponent Oxidative Coupling Reaction via the Design of a Unique, 3D Copper Isophthalate MOF-Based Catalyst Decorated with Mixed Spinel CoFe ₂ O ₄ Nanoparticles. ACS Omega, 2018, 3, 15100-15111. | 1.6 | 29 |
| 30 | <i>In situ</i> hydroxyl radical generation using the synergism of the Co–Ni bimetallic centres of a developed nanocatalyst with potent efficiency for degrading toxic water pollutants. Materials Chemistry Frontiers, 2020, 4, 605-620. | 3.2 | 26 |
| 31 | Nickel(<scp>ii</scp>) complex covalently anchored on core shell structured SiO ₂ @Fe ₃ O ₄ nanoparticles: a robust and magnetically retrievable catalyst for direct one-pot reductive amination of ketones. New Journal of Chemistry, 2016, 40, 2089-2101. | 1.4 | 25 |
| 32 | Chemically modified silica gel with 1-{4-[(2-hydroxy-benzylidene)amino]phenyl}ethanone: Synthesis, characterization and application as an efficient and reusable solid phase extractant for selective removal of Zn(II) from mycorrhizal treated fly-ash samples. Journal of Environmental Sciences, 2013, 25, 1252-1261. | 3.2 | 24 |
| 33 | Harnessing the Untapped Catalytic Potential of a CoFe ₂ O ₄ /Mn-BDC Hybrid MOF Composite for Obtaining a Multitude of 1,4-Disubstituted 1,2,3-Triazole Scaffolds. Inorganic Chemistry, 2020, 59, 8334-8344. | 1.9 | 23 |
| 34 | Aerobic Oxidation of Thiols to Disulfides by Silverâ€Based Magnetic Catalyst. ChemistrySelect, 2018, 3, 2502-2508. | 0.7 | 22 |
| 35 | A highly efficient and magnetically retrievable functionalized nano-adsorbent for ultrasonication assisted rapid and selective extraction of Pd2+ ions from water samples. RSC Advances, 2015, 5, 43371-43380. | 1.7 | 20 |
| 36 | Polyfluorinated–zinc(II)phthalocyanine complex immobilized on silica: A novel, highly selective and recyclable inorganic–organic hybrid catalyst for the synthesis of biologically important 1,5-benzodiazepines. Inorganica Chimica Acta, 2013, 397, 21-31. | 1.2 | 19 |

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| 37 | Fabrication of Copperâ€based Silicaâ€coated Magnetic Nanocatalyst for Efficient Oneâ€pot Synthesis of Chalcones <i>via</i> A ³ Coupling of Aldehydesâ€Alkynesâ€Amines. ChemCatChem, 2020, 12, 2488-2496. | 1.8 | 19 |
| 38 | Fabrication, functionalization and advanced applications of magnetic hollow materials in confined catalysis and environmental remediation. Nanoscale, 2021, 13, 10967-11003. | 2.8 | 18 |
| 39 | Heterogenized nickel catalysts for various organic transformations. Current Opinion in Green and Sustainable Chemistry, 2019, 15, 47-59. | 3.2 | 17 |
| 40 | An Efficient and Recyclable Silica Based Inorganic–Organic Hybrid Zinc Catalyst for Transesterification of β-Ketoesters. Journal of Inorganic and Organometallic Polymers and Materials, 2011, 21, 619-626. | 1.9 | 16 |
| 41 | One pot and solvent-free synthesis of 2,9,16,23-tetrachlorometal(II) phthalocyanines. Green Chemistry Letters and Reviews, 2012, 5, 83-87. | 2.1 | 16 |
| 42 | Design and Exploration of Catalytic Activity of Two-Dimensional Surface-Engineered Graphene Oxide Nanosheets in the Transannulation of N-Heterocyclic Aldehydes or Ketones with Alkylamines. ACS Omega, 2019, 4, 3146-3158. | 1.6 | 16 |
| 43 | A Novel and Templateâ€Free Synthesis of Multifunctional Doubleâ€Shelled Fe ₃ O ₄ â€C Nanoreactor as an Ideal Support for Confined Catalytic Reactions. ChemistrySelect, 2017, 2, 10871-10879. | 0.7 | 15 |
| 44 | Zinc(II) complex immobilized on amine functionalized silica gel: a novel, highly efficient and recyclable catalyst for multicomponent click synthesis of 1,4-disubstituted 1,2,3-triazoles. Journal of Coordination Chemistry, 2016, 69, 1152-1165. | 0.8 | 14 |
| 45 | Unprecedented Ester–Amide Exchange Reaction Using Highly Versatile Two-Dimensional Graphene Oxide Supported Base Metal Nanocatalyst. Industrial & Engineering Chemistry Research, 2018, 57, 3617-3627. | 1.8 | 14 |
| 46 | Unlocking the catalytic potency of a magnetic responsive CoFe ₂ O ₄ /Ni-BTC MOF composite for the sustainable synthesis of tri- and tetra-substituted imidazoles. Materials Chemistry Frontiers, 2021, 5, 7343-7355. | 3.2 | 14 |
| 47 | Ultrasonically-mediated one-pot synthesis of substituted imidazoles via sulfamic acid functionalized hollow magnetically retrievable solid-acid catalyst. Current Research in Green and Sustainable Chemistry, 2021, 4, 100050. | 2.9 | 11 |
| 48 | Ingeniously designed Silica nanostructures as an exceptional support: Opportunities, potential challenges and future prospects for viable degradation of pesticides. Journal of Environmental Management, 2022, 301, 113821. | 3.8 | 11 |
| 49 | A magnetically retrievable copper ionic liquid nanocatalyst for cyclooxidative synthesis of 2-phenylquinazolin-4(3 <i>H</i>)-ones. Dalton Transactions, 2021, 50, 890-898. | 1.6 | 10 |
| 50 | Nanoengineered iron oxide-based sorbents for separation of various water pollutants: current status, opportunities and future outlook. Environmental Science: Water Research and Technology, 2021, 7, 818-860. | 1.2 | 10 |
| 51 | Unravelling the catalytic potential of a magnetic CoFe ₂ O ₄ /Cu–ABDC MOF composite in the sustainable synthesis of 2 <i>H</i> -indazole motifs. New Journal of Chemistry, 2022, 46, 10829-10843. | 1.4 | 10 |
| 52 | Inhibitors of transcription factor nuclear factor-kappa beta (NF-κβ)-DNA binding. RSC Advances, 2013, 3, 1282-1296. | 1.7 | 9 |
| 53 | A template free protocol for fabrication of a Ni(<scp>ii</scp>)-loaded magnetically separable nanoreactor scaffold for confined synthesis of unsymmetrical diaryl sulfides in water. RSC Advances, 2020, 10, 19390-19396. | 1.7 | 9 |
| 54 | Efficient and sustainable Co3O4 nanocages based nickel catalyst: A suitable platform for the synthesis of quinoxaline derivatives. Molecular Catalysis, 2021, 504, 111454. | 1.0 | 9 |

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| 55 | Chemistry of magnetic covalent organic frameworks (MagCOFs): from synthesis to separation applications. Materials Advances, 2022, 3, 1432-1458. | 2.6 | 9 |
| 56 | Magnetic Boron Nitride Nanosheets Decorated with Cobalt Nanoparticles as Catalyst for the Synthesis of 3,4-Dihydropyrimidin-2(1 <i>H</i>)-ones/thiones. ACS Applied Nano Materials, 2022, 5, 4875-4886. | 2.4 | 8 |
| 57 | 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 |
| 58 | Magnetically separable type-II semiconductor based ZnO/MoO ₃ photocatalyst: a proficient system for heteroarenes arylation and rhodamine B degradation under visible light. New Journal of Chemistry, 2022, 46, 8478-8488. | 1.4 | 5 |
| 59 | Porous silica supported Co2+-tetrachlorophthalocyanine (CoPcCl-APTES@SiO2): a novel and recyclable organic–inorganic hybrid catalyst for eco-friendly oxidation of secondary alcohols. Journal of Porous Materials, 2013, 20, 937-949. | 1.3 | 4 |
| 60 | A sustainable gateway to access 1,8-dioxo-octahydroxanthene scaffolds <i>via</i> a surface-engineered halloysite-based magnetically responsive catalyst. New Journal of Chemistry, 2022, 46, 5405-5418. | 1.4 | 4 |
| 61 | Microwave-assisted C-C, C-O, C-N, C-S Bond Formation and Multicomponent Reactions Using Magnetic Retrievable Nanocatalysts. Current Microwave Chemistry, 2021, 8, 96-116. | 0.2 | 3 |
| 62 | Synthesis of phenol esters by direct C-H activation of aldehydes using highly efficient and reusable copper immobilized polyimide covalent organic framework (Cu@PI-COF). New Journal of Chemistry, 0, , | 1.4 | 2 |

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