

Santanu Mukherjee

List of Publications by Year in descending order

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74
papers

5,759
citations

117453

34
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76769

74
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91
all docs

91
docs citations

91
times ranked

4898
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Asymmetric Enamine Catalysis. <i>Chemical Reviews</i> , 2007, 107, 5471-5569. | 23.0 | 2,584 |
| 2 | Highly Efficient Dynamic Kinetic Resolution of Azlactones by Urea-Based Bifunctional Organocatalysts. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 807-811. | 7.2 | 250 |
| 3 | Catalytic Enantioselective Iodoetherification of Oximes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8450-8453. | 7.2 | 145 |
| 4 | Second-generation organocatalysts for the highly enantioselective dynamic kinetic resolution of azlactones. <i>Chemical Communications</i> , 2005, , 1898-1900. | 2.2 | 136 |
| 5 | Organocatalytic Enantioselective Formal C(sp ²)â€”H Alkylation. <i>Journal of the American Chemical Society</i> , 2015, 137, 130-133. | 6.6 | 100 |
| 6 | Catalytic enantioselective construction of quaternary stereocenters by direct vinylogous Michael addition of deconjugated butenolides to nitroolefins. <i>Chemical Communications</i> , 2012, 48, 5193-5195. | 2.2 | 97 |
| 7 | Structural optimization of thiourea-based bifunctional organocatalysts for the highly enantioselective dynamic kinetic resolution of azlactones. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 4319-4330. | 1.5 | 95 |
| 8 | Remarkable influence of secondary catalyst site on enantioselective desymmetrization of cyclopentenedione. <i>Chemical Science</i> , 2014, 5, 1627-1633. | 3.7 | 93 |
| 9 | Catalytic Enantioselective Iodoaminocyclization of Hydrazones. <i>Organic Letters</i> , 2014, 16, 3368-3371. | 2.4 | 80 |
| 10 | Lewis Base Catalysis by Thiourea: <i>N</i> -Bromosuccinimide-Mediated Oxidation of Alcohols. <i>Journal of Organic Chemistry</i> , 2012, 77, 1592-1598. | 1.7 | 76 |
| 11 | A chronicle of SARS-CoV-2: Seasonality, environmental fate, transport, inactivation, and antiviral drug resistance. <i>Journal of Hazardous Materials</i> , 2021, 405, 124043. | 6.5 | 76 |
| 12 | Catalytic Asymmetric Direct Vinylogous Michael Addition of Deconjugated Butenolides to Maleimides for the Construction of Quaternary Stereogenic Centers. <i>Chemistry - A European Journal</i> , 2012, 18, 15277-15282. | 1.7 | 73 |
| 13 | Enantioselective dearomatization of isoquinolines by anion-binding catalysis en route to cyclic β -aminophosphonates. <i>Chemical Science</i> , 2016, 7, 6940-6945. | 3.7 | 67 |
| 14 | Organocatalytic asymmetric direct vinylogous Michael addition of β,β -unsaturated γ -butyrolactam to nitroolefins. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7313. | 1.5 | 65 |
| 15 | Synergistic Lewis base and anion-binding catalysis for the enantioselective vinylogous addition of deconjugated butenolides to allenolates. <i>Chemical Communications</i> , 2013, 49, 11203. | 2.2 | 65 |
| 16 | Sustainable removal of pernicious arsenic and cadmium by a novel composite of MnO ₂ impregnated alginate beads: A cost-effective approach for wastewater treatment. <i>Journal of Environmental Management</i> , 2019, 234, 8-20. | 3.8 | 59 |
| 17 | A Catalytic Michael/Hornerâ€”Wadsworthâ€”Emmons Cascade Reaction for Enantioselective Synthesis of Thiochromenes. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1989-1995. | 2.1 | 57 |
| 18 | Catalytic Asymmetric Synthesis of β,β -Disubstituted γ -Diaminophosphonic Acid Precursors by Michael Addition of β -Substituted Nitrophosphonates to Nitroolefins. <i>Organic Letters</i> , 2012, 14, 3296-3299. | 2.4 | 56 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Highly Enantioselective Diels-Alder Reactions of Maleimides Catalyzed by Activated Chiral Oxazaborolidines. <i>Organic Letters</i> , 2010, 12, 632-635. | 2.4 | 55 |
| 20 | Sorption-desorption behaviour of bentazone, boscalid and pyrimethanil in biochar and digestate based soil mixtures for biopurification systems. <i>Science of the Total Environment</i> , 2016, 559, 63-73. | 3.9 | 52 |
| 21 | Enantioselective [4 + 2]-Annulation of Azlactones with Copper-Allylidenes under Cooperative Catalysis: Synthesis of \pm -Quaternary \pm -Acylaminoamides. <i>Organic Letters</i> , 2019, 21, 3361-3366. | 2.4 | 49 |
| 22 | A perspective on biochar for repairing damages in the soil-plant system caused by climate change-driven extreme weather events. <i>Biochar</i> , 2022, 4, 1. | 6.2 | 46 |
| 23 | Catalytic Aldol-Cyclization Cascade of 3-Isothiocyanato Oxindoles with \pm -Ketophosphonates for the Enantioselective Synthesis of \pm -Amino- \pm -hydroxyphosphonates. <i>Organic Letters</i> , 2015, 17, 5508-5511. | 2.4 | 45 |
| 24 | Catalytic asymmetric desymmetrization approaches to enantioenriched cyclopentanes. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 18-24. | 1.5 | 45 |
| 25 | Catalytic asymmetric formal \pm -allylation of deconjugated butenolides. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 5659-5664. | 1.5 | 45 |
| 26 | Efficacy of agricultural waste derived biochar for arsenic removal: Tackling water quality in the Indo-Gangetic plain. <i>Journal of Environmental Management</i> , 2021, 281, 111814. | 3.8 | 45 |
| 27 | Catalytic Enantioselective 1,4-Iodofunctionalizations of Conjugated Dienes. <i>Organic Letters</i> , 2015, 17, 4424-4427. | 2.4 | 43 |
| 28 | Catalytic enantioselective cascade Michael/cyclization reaction of 3-isothiocyanato oxindoles with exocyclic \pm , \pm -unsaturated ketones en route to 3,2- \pm -pyrrolidinyl bispirooxindoles. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10175-10179. | 1.5 | 43 |
| 29 | [4 + 2] Cycloaddition Reactions Catalyzed by a Chiral Oxazaborolidinium Cation. Reaction Rates and Diastereo-, Regio-, and Enantioselectivity Depend on Whether Both Bonds Are Formed Simultaneously. <i>Organic Letters</i> , 2010, 12, 1024-1027. | 2.4 | 42 |
| 30 | Deconjugated butenolide: a versatile building block for asymmetric catalysis. <i>Chemical Society Reviews</i> , 2020, 49, 6755-6788. | 18.7 | 42 |
| 31 | Microbial respiration of biochar- and digestate-based mixtures. <i>Biology and Fertility of Soils</i> , 2016, 52, 151-164. | 2.3 | 39 |
| 32 | Performance evaluation of crop residue and kitchen waste-derived biochar for eco-efficient removal of arsenic from soils of the Indo-Gangetic plain: A step towards sustainable pollution management. <i>Environmental Research</i> , 2021, 200, 111758. | 3.7 | 39 |
| 33 | Low-cost bio-based sustainable removal of lead and cadmium using a polyphenolic bioactive Indian curry leaf (<i>Murraya koengii</i>) powder. <i>International Journal of Hygiene and Environmental Health</i> , 2020, 226, 113471. | 2.1 | 37 |
| 34 | Catalytic Enantioselective Synthesis of 3,4-Unsubstituted Thiochromenes through Sulfa-Michael/Julia-Kocienski Olefination Cascade Reaction. <i>Journal of Organic Chemistry</i> , 2017, 82, 4851-4858. | 1.7 | 35 |
| 35 | Picosecond Electron Transfer from Quantum Dots Enables a General and Efficient Aerobic Oxidation of Boronic Acids. <i>ACS Catalysis</i> , 2018, 8, 5206-5211. | 5.5 | 35 |
| 36 | Enantioselective Pathway for the Synthesis of Laurenditerpenol. <i>Organic Letters</i> , 2010, 12, 1836-1838. | 2.4 | 33 |

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|----|--|-----|-----------|
| 37 | Catalytic Asymmetric Michael Addition/Cyclization Cascade Reaction of 3-Isothiocyanatooxindoles with Nitro Olefins. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6696-6700. | 1.2 | 33 |
| 38 | Iridium-catalyzed enantioselective direct vinylogous allylic alkylation of coumarins. <i>Chemical Science</i> , 2018, 9, 5767-5772. | 3.7 | 32 |
| 39 | On water-catalytic enantioselective sulfenylation of deconjugated butyrolactams. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6921-6925. | 1.5 | 31 |
| 40 | Catalytic Asymmetric Direct Vinylogous Michael Addition of β -Aryl-Substituted Deconjugated Butenolides to Nitroolefins and N-Phenylmaleimide. <i>Synthesis</i> , 2013, 45, 1641-1646. | 1.2 | 29 |
| 41 | Catalytic Enantioselective Desymmetrization of Norbornenoquinones via C(sp ²)-H Alkylation. <i>Organic Letters</i> , 2016, 18, 6160-6163. | 2.4 | 29 |
| 42 | Enantioselective desymmetrization of prochiral 1,3-dinitropropanes via organocatalytic allylic alkylation. <i>Chemical Communications</i> , 2014, 50, 121-123. | 2.2 | 28 |
| 43 | Enantioselective Formal C(sp ²)-H Vinylation. <i>Chemistry - A European Journal</i> , 2016, 22, 14912-14919. | 1.7 | 28 |
| 44 | A Catalytic Enantioselective Iodocyclization Route to Dihydrooxazines. <i>Organic Letters</i> , 2018, 20, 1300-1303. | 2.4 | 28 |
| 45 | Biomedical application, drug delivery and metabolic pathway of antiviral nanotherapeutics for combating viral pandemic: A review. <i>Environmental Research</i> , 2020, 191, 110119. | 3.7 | 28 |
| 46 | Field scale boscalid residues and dissipation half-life estimation in a sandy soil. <i>Chemosphere</i> , 2016, 145, 163-173. | 4.2 | 27 |
| 47 | Catalytic Enantioselective Vinylogous Allylic Alkylation of Coumarins. <i>Organic Letters</i> , 2017, 19, 4944-4947. | 2.4 | 27 |
| 48 | Hexametaphosphate cross-linked chitosan beads for the eco-efficient removal of organic dyes: Tackling water quality. <i>Journal of Environmental Management</i> , 2021, 280, 111680. | 3.8 | 27 |
| 49 | Catalytic Enantioselective Halocyclizations beyond Lactones: Emerging Routes to Enantioenriched Nitrogenous Heterocycles. <i>Synlett</i> , 2014, 25, 163-169. | 1.0 | 26 |
| 50 | Efficient Photosynthesis of Organics from Aqueous Bicarbonate Ions by Quantum Dots Using Visible Light. <i>ACS Energy Letters</i> , 2018, 3, 1508-1514. | 8.8 | 26 |
| 51 | Metal removal, partitioning and phase distributions in the wastewater and sludge: Performance evaluation of conventional, upflow anaerobic sludge blanket and downflow hanging sponge treatment systems. <i>Journal of Cleaner Production</i> , 2020, 249, 119426. | 4.6 | 25 |
| 52 | Direct Catalytic Enantioselective Vinylogous Aldol Reaction of Allyl Ketones to Pyrazole-4,5-diones. <i>Journal of Organic Chemistry</i> , 2018, 83, 10871-10880. | 1.7 | 23 |
| 53 | Iridium-Catalyzed Enantioselective β -Allylic Alkylation of Amides Using Vinyl Azide as Amide Enolate Surrogate. <i>Organic Letters</i> , 2020, 22, 7752-7756. | 2.4 | 19 |
| 54 | Iridium-Catalyzed Enantioselective and Chemodivergent Allenylic Alkylation of Vinyl Azides for the Synthesis of β -Allylic Amides and Ketones**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 18 |

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|----|---|-----|-----------|
| 55 | Nitro-enabled catalytic enantioselective formal umpolung alkenylation of β^2 -ketoesters. <i>Chemical Science</i> , 2017, 8, 6686-6690. | 3.7 | 16 |
| 56 | Iridium-catalyzed enantioselective olefinic C(sp ²)–H allylic alkylation. <i>Chemical Science</i> , 2021, 12, 3070-3075. | 3.7 | 16 |
| 57 | Catalytic Enantioselective Desymmetrizing Fischer Indolization through Dynamic Kinetic Resolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9086-9092. | 7.2 | 16 |
| 58 | Cycling of black carbon and black nitrogen in the hydro-geosphere: Insights on the paradigm, pathway, and processes. <i>Science of the Total Environment</i> , 2021, 770, 144711. | 3.9 | 15 |
| 59 | Enantioselective Direct Vinylogous Allylic Alkylation of 4-Methylquinolones under Iridium Catalysis. <i>Organic Letters</i> , 2019, 21, 5315-5320. | 2.4 | 14 |
| 60 | Biopurification of dairy farm wastewater through hybrid constructed wetland system: Groundwater quality and health implications. <i>Environmental Research</i> , 2021, 200, 111426. | 3.7 | 14 |
| 61 | Reappraisal review on geopolymers: A new era of aluminosilicate binder for metal immobilization. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 14, 100345. | 1.7 | 13 |
| 62 | Enantioselective Total Synthesis of [3]-Ladderanol through Late-Stage Organocatalytic Desymmetrization**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 7.2 | 13 |
| 63 | Future liasing of the lockdown during COVID-19 pandemic: The dawn is expected at hand from the darkest hour. <i>Groundwater for Sustainable Development</i> , 2020, 11, 100433. | 2.3 | 12 |
| 64 | Catalytic enantioselective Michael addition of deconjugated butyrolactams to maleimides. <i>Tetrahedron</i> , 2019, 75, 3292-3298. | 1.0 | 11 |
| 65 | Iridium-Catalyzed Asymmetric Allylic Alkylation of Deconjugated Butyrolactams. <i>Organic Letters</i> , 2021, 23, 3021-3026. | 2.4 | 11 |
| 66 | Catalytic Enantioselective C–C Bond-Forming Reactions of Deconjugated Butyrolactams: Michael Addition to α,β -Unsaturated Aldehydes and Ketones. <i>Journal of Organic Chemistry</i> , 2018, 83, 12071-12085. | 1.7 | 10 |
| 67 | Mega festivals like MahaKumbh, a largest mass congregation, facilitated the transmission of SARS-CoV-2 to humans and endangered animals via contaminated water. <i>International Journal of Hygiene and Environmental Health</i> , 2021, 237, 113836. | 2.1 | 9 |
| 68 | Noncovalent Catalysis for Enantioselective Direct Aldol Reaction of β -Acetylcoumarins to Pyrazole-4,5-diones. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 1045-1048. | 1.3 | 8 |
| 69 | Dissipation kinetics, residue modeling and human intake of endosulfan applied to okra (<i>Abelmoschus</i>). <i>Tj ETQq1 1 0,784314 rgBT /Over</i> | 3.9 | 8 |
| 70 | Catalytic Enantioselective Desymmetrizing Fischer Indolization through Dynamic Kinetic Resolution. <i>Angewandte Chemie</i> , 2021, 133, 9168-9174. | 1.6 | 3 |
| 71 | Aminoalkyl-organo-silane treated sand for the adsorptive removal of arsenic from the groundwater: Immobilizing the mobilized geogenic contaminants. <i>Journal of Hazardous Materials</i> , 2022, 425, 127916. | 6.5 | 3 |
| 72 | Iridium-Catalyzed Enantioselective and Chemodivergent Allenylic Alkylation of Vinyl Azides for the Synthesis of β -Allenlic Amides and Ketones**. <i>Angewandte Chemie</i> , 0, , e202115821. | 1.6 | 2 |

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|----|---|-----|-----------|
| 73 | Buckeye Rot of Tomato in India: Present Status, Challenges, and Future Research Perspectives. Plant Disease, 2021, , . | 0.7 | 2 |
| 74 | Enantioselective Total Synthesis of [3]-Ladderanol through Late-Stage Organocatalytic Desymmetrization. Angewandte Chemie, 0, , . | 1.6 | 2 |