# Jeehye Byun

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7922231/publications.pdf

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|---|---|---|---|
| 31 papers | 1,724 citations | 430874 18 h-index | 454955 30 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 2479 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Carbon Dioxide Capture Adsorbents: Chemistry and Methods. ChemSusChem, 2017, 10, 1303-1317. | 6.8 | 313 |
| 2 | Asymmetric Covalent Triazine Framework for Enhanced Visibleâ€Light Photoredox Catalysis via Energy Transfer Cascade. Angewandte Chemie - International Edition, 2018, 57, 8316-8320. | 13.8 | 169 |
| 3 | Highly Stable Nanoporous Sulfurâ€Bridged Covalent Organic Polymers for Carbon Dioxide Removal. Advanced Functional Materials, 2013, 23, 2270-2276. | 14.9 | 135 |
| 4 | Charge-specific size-dependent separation of water-soluble organic molecules by fluorinated nanoporous networks. Nature Communications, 2016, 7, 13377. | 12.8 | 132 |
| 5 | Designing conjugated porous polymers for visible light-driven photocatalytic chemical transformations. Materials Horizons, 2020, 7, 15-31. | 12.2 | 130 |
| 6 | Poly(benzothiadiazoles) and Their Derivatives as Heterogeneous Photocatalysts for Visible-Light-Driven Chemical Transformations. ACS Catalysis, 2018, 8, 4735-4750. | 11.2 | 119 |
| 7 | Highly Efficient Catalytic Cyclic Carbonate Formation by Pyridyl Salicylimines. ACS Applied Materials & Interfaces, 2018, 10, 9478-9484. | 8.0 | 103 |
| 8 | Nanoporous covalent organic polymers incorporating TrÃ¶ger's base functionalities for enhanced CO<sub>2</sub>capture. Journal of Materials Chemistry A, 2014, 2, 12507. | 10.3 | 90 |
| 9 | CO<sub>2</sub>â€Triggered Switchable Hydrophilicity of a Heterogeneous Conjugated Polymer Photocatalyst for Enhanced Catalytic Activity in Water. Angewandte Chemie - International Edition, 2018, 57, 2967-2971. | 13.8 | 85 |
| 10 | Conjugated Polymer Hydrogel Photocatalysts with Expandable Photoactive Sites in Water. Chemistry of Materials, 2019, 31, 3381-3387. | 6.7 | 47 |
| 11 | Observation of the wrapping mechanism in amine carbon dioxide molecular interactions on heterogeneous sorbents. Physical Chemistry Chemical Physics, 2016, 18, 14177-14181. | 2.8 | 42 |
| 12 | Rapid extraction of uranium ions from seawater using novel porous polymeric adsorbents. RSC Advances, 2016, 6, 45968-45976. | 3.6 | 38 |
| 13 | Nanoporous networks as effective stabilisation matrices for nanoscale zero-valent iron and groundwater pollutant removal. Journal of Materials Chemistry A, 2016, 4, 632-639. | 10.3 | 36 |
| 14 | Hydrophilic photocatalytic membrane via grafting conjugated polyelectrolyte for visible-light-driven biofouling control. Applied Catalysis B: Environmental, 2021, 282, 119587. | 20.2 | 33 |
| 15 | Reversible water capture by a charged metal-free porous polymer. Polymer, 2017, 126, 308-313. | 3.8 | 33 |
| 16 | N-Rich Carbon Catalysts with Economic Feasibility for the Selective Oxidation of Hydrogen Sulfide to Sulfur. Environmental Science & Technology, 2020, 54, 12621-12630. | 10.0 | 26 |
| 17 | Quantitative evaluation of the antibacterial factors of ZnO nanorod arrays under dark conditions: Physical and chemical effects on Escherichia coli inactivation. Science of the Total Environment, 2020, 712, 136574. | 8.0 | 25 |
| 18 | Controllable Homogeneity/Heterogeneity Switch of Imidazolium Ionic Liquids for CO<sub>2</sub> Utilization. ChemCatChem, 2018, 10, 4610-4616. | 3.7 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Arsenic removal by magnetic nanocrystalline barium hexaferrite. Journal of Nanoparticle Research, 2012, 14, 1. | 1.9 | 18 |
| 20 | Nanoporous networks as caging supports for uniform, surfactant-free Co<sub>3</sub>O<sub>4</sub> nanocrystals and their applications in energy storage and conversion. Journal of Materials Chemistry A, 2015, 3, 15489-15497. | 10.3 | 18 |
| 21 | Synthesis and Easy Functionalization of Highly Porous Networks through Exchangeable Fluorines for Target Specific Applications. Chemistry of Materials, 2016, 28, 5592-5595. | 6.7 | 18 |
| 22 | Optimization of coagulation and sedimentation conditions by turbidity measurement for nano- and microplastic removal. Chemosphere, 2022, 306, 135572. | 8.2 | 18 |
| 23 | Controllable porous membrane actuator by gradient infiltration of conducting polymers. Journal of Materials Chemistry A, 2021, 9, 5007-5015. | 10.3 | 17 |
| 24 | Magnetic BaFe12O19 nanofiber filter for effective separation of Fe3O4 nanoparticles and removal of arsenic. Journal of Nanoparticle Research, 2014, 16, 1. | 1.9 | 13 |
| 25 | CO<sub>2</sub>â€ausgelÃ¶ste schaltbare Hydrophilie von heterogen konjugierten Polymerphotokatalysatoren fÃ¼r verbesserte katalytische AktivitÃt in Wasser. Angewandte Chemie, 2018, 130, 3019-3023. | 2.0 | 10 |
| 26 | Incorporation of Metal Active Sites on Porous Polycarbazoles for Photocatalytic CO<sub>2</sub> Reduction. ChemCatChem, 2022, 14, . | 3.7 | 10 |
| 27 | Multifunctional photo-Fenton-active membrane for solar-driven water purification. Journal of Membrane Science, 2022, 660, 120832. | 8.2 | 10 |
| 28 | Magnetic Conjugated Polymer Nanoparticles with Tunable Wettability for Versatile Photocatalysis under Visible Light. , 2020, 2, 557-562. | | 5 |
| 29 | Beyond the batch: Process and material design of polymeric photocatalysts for flow photochemistry. Chem Catalysis, 2021, 1, 771-781. | 6.1 | 5 |
| 30 | Processing nanoporous organic polymers in liquid amines. Beilstein Journal of Nanotechnology, 2019, 10, 1844-1850. | 2.8 | 3 |
| 31 | Changes in levels of N-nitrosamine formed from amine-containing compounds during chloramination via photocatalytic pretreatment with immobilized TiO2: Effect of source water and pH. Journal of Hazardous Materials, 2022, 424, 127398. | 12.4 | 1 |