

Zequn Yang

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,198
citations

196777

29
h-index

252626

46
g-index

55
all docs

55
docs citations

55
times ranked

1270
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Removal of flue gas mercury by porous carbons derived from one-pot carbonization and activation of wood sawdust in a molten salt medium. <i>Journal of Hazardous Materials</i> , 2022, 424, 127336. | 6.5 | 44 |
| 2 | Facile pathway towards crystallinity adjustment and performance enhancement of copper selenide for vapor-phase elemental mercury sequestration. <i>Chemical Engineering Journal</i> , 2022, 430, 132811. | 6.6 | 5 |
| 3 | Acceleration of traces of Fe ³⁺ -activated peroxymonosulfate by natural pyrite: A novel cocatalyst for improving Fenton-like processes. <i>Chemical Engineering Journal</i> , 2022, 435, 134893. | 6.6 | 2 |
| 4 | Favorably adjusting the pore characteristics of copper sulfide by template regulation for vapor-phase elemental mercury immobilization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10729-10737. | 5.2 | 17 |
| 5 | A Molten-Salt Pyrolysis Synthesis Strategy toward Sulfur-Functionalized Carbon for Elemental Mercury Removal from Coal-Combustion Flue Gas. <i>Energies</i> , 2022, 15, 1840. | 1.6 | 6 |
| 6 | Charge distribution modulation and morphology controlling of copper selenide for an enhanced elemental mercury adsorption activity in flue gas. <i>Chemical Engineering Journal</i> , 2022, 442, 136145. | 6.6 | 47 |
| 7 | Coordinatively Unsaturated Selenides over CuFeSe ₂ toward Highly Efficient Mercury Immobilization. <i>Environmental Science & Technology</i> , 2022, 56, 575-584. | 4.6 | 36 |
| 8 | Mechanisms of Gas-Phase Mercury Immobilized by Metal Sulfides from Combustion Flue Gas: A Mini Review. <i>Energy & Fuels</i> , 2022, 36, 6027-6037. | 2.5 | 8 |
| 9 | Reduction of oxidized mercury over NO _x selective catalytic reduction catalysts: A review. <i>Chemical Engineering Journal</i> , 2021, 421, 127745. | 6.6 | 10 |
| 10 | Light irradiation inhibits mercury adsorption by mineral sulfide sorbent. <i>Fuel</i> , 2021, 288, 119663. | 3.4 | 8 |
| 11 | The adsorption mechanisms of Hg ₀ on marcasite-type metal selenides: The influences of metal-terminated site. <i>Chemical Engineering Journal</i> , 2021, 406, 126723. | 6.6 | 27 |
| 12 | Recyclable chalcopyrite sorbent for mercury removal from coal combustion flue gas. <i>Fuel</i> , 2021, 290, 120049. | 3.4 | 36 |
| 13 | The influences of selenium species on mercury removal over pyrite surface: A density functional theory study. <i>Fuel</i> , 2021, 292, 120284. | 3.4 | 17 |
| 14 | Advances in flue gas mercury abatement by mineral chalcogenides. <i>Chemical Engineering Journal</i> , 2021, 411, 128608. | 6.6 | 51 |
| 15 | Mechanistic insight into the generation of high-valent iron-oxo species via peroxymonosulfate activation: An experimental and density functional theory study. <i>Chemical Engineering Journal</i> , 2021, 420, 130477. | 6.6 | 21 |
| 16 | Facile preparation of nanosized copper sulfide functionalized macroporous skeleton for efficient vapor-phase mercury sequestration. <i>Chemical Engineering Journal</i> , 2021, 419, 129561. | 6.6 | 33 |
| 17 | Activation of peroxymonosulfate by molybdenum disulfide-mediated traces of Fe(III) for sulfadiazine degradation. <i>Chemosphere</i> , 2021, 283, 131212. | 4.2 | 19 |
| 18 | Activation of dissolved molecular oxygen by ascorbic acid-mediated circulation of copper(II): Applications and limitations. <i>Separation and Purification Technology</i> , 2021, 275, 119186. | 3.9 | 7 |

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|----|--|-----|-----------|
| 19 | Binary mineral sulfides sorbent with wide temperature range for rapid elemental mercury uptake from coal combustion flue gas. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 160-169. | 1.2 | 10 |
| 20 | Role of SO ₂ and H ₂ O in the mercury adsorption on ceria surface: A DFT study. <i>Fuel</i> , 2020, 260, 116289. | 3.4 | 45 |
| 21 | In Situ Decoration of Selenide on Copper Foam for the Efficient Immobilization of Gaseous Elemental Mercury. <i>Environmental Science & Technology</i> , 2020, 54, 2022-2030. | 4.6 | 96 |
| 22 | Nonradical degradation of microorganic pollutants by magnetic N-doped graphitic carbon: A complement to the unactivated peroxymonosulfate. <i>Chemical Engineering Journal</i> , 2020, 392, 123724. | 6.6 | 28 |
| 23 | Toward an Understanding of Fundamentals Governing the Elemental Mercury Sequestration by Metal Chalcogenides. <i>Environmental Science & Technology</i> , 2020, 54, 9672-9680. | 4.6 | 27 |
| 24 | Density Functional Theory Study of Elemental Mercury Immobilization on CuSe(001) Surface: Reaction Pathway and Effect of Typical Flue Gas Components. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 13603-13612. | 1.8 | 20 |
| 25 | Surface-Engineered Sponge Decorated with Copper Selenide for Highly Efficient Gas-Phase Mercury Immobilization. <i>Environmental Science & Technology</i> , 2020, 54, 16195-16203. | 4.6 | 63 |
| 26 | Advances in magnetically recyclable remediators for elemental mercury degradation in coal combustion flue gas. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18624-18650. | 5.2 | 10 |
| 27 | Selenide functionalized natural mineral sulfides as efficient sorbents for elemental mercury capture from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2020, 398, 125611. | 6.6 | 53 |
| 28 | Density Functional Theory Studies of the Adsorption and Interactions between Selenium Species and Mercury on Activated Carbon. <i>Energy & Fuels</i> , 2020, 34, 9779-9786. | 2.5 | 16 |
| 29 | Activation of peroxymonosulfate by FeO@Fe ₃ O ₄ core-shell nanowires for sulfate radical generation: Electron transfer and transformation products. <i>Separation and Purification Technology</i> , 2020, 247, 116942. | 3.9 | 38 |
| 30 | Development of selenized magnetite (Fe ₃ O ₄ ·xSey) as an efficient and recyclable trap for elemental mercury sequestration from coal combustion flue gas. <i>Chemical Engineering Journal</i> , 2020, 394, 125022. | 6.6 | 47 |
| 31 | Efficient reduction of CO ₂ to CO by Ag ₃ PO ₄ /TiO ₂ photocatalyst under ultraviolet and visible light irradiation. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020, 15, e2499. | 0.8 | 4 |
| 32 | Amorphous molybdenum selenide intercalated magnetite as a recyclable trap for the effective sequestration of elemental mercury. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14955-14965. | 5.2 | 30 |
| 33 | Sulfate radical-induced destruction of emerging contaminants using traces of cobalt ions as catalysts. <i>Chemosphere</i> , 2020, 256, 127061. | 4.2 | 23 |
| 34 | Amorphous Molybdenum Selenide Nanosheet as an Efficient Trap for the Permanent Sequestration of Vapor-Phase Elemental Mercury. <i>Advanced Science</i> , 2019, 6, 1901410. | 5.6 | 57 |
| 35 | Trace element partition in coal fires. , 2019, , 105-142. | | 2 |
| 36 | Trace element partition in coal gasification. , 2019, , 143-171. | | 0 |

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|----|---|------|-----------|
| 37 | Trace element partition in a coal-feed industry furnace. , 2019, , 173-226. | | 0 |
| 38 | Trace element partition in coal combustion. , 2019, , 63-103. | | 1 |
| 39 | Selenium Functionalized Metal-Organic Framework MIL-101 for Efficient and Permanent Sequestration of Mercury. Environmental Science & Technology, 2019, 53, 2260-2268. | 4.6 | 133 |
| 40 | Role of Sulfur Trioxide (SO ₃) in Gas-Phase Elemental Mercury Immobilization by Mineral Sulfide. Environmental Science & Technology, 2019, 53, 3250-3257. | 4.6 | 58 |
| 41 | Nanosized Copper Selenide Functionalized Zeolitic Imidazolate Framework (CuSe/ZIF) for Efficient Immobilization of Gas-Phase Elemental Mercury. Advanced Functional Materials, 2019, 29, 1807191. | 7.8 | 74 |
| 42 | Nanosized Copper Selenide for Mercury Removal from Indoor Air and Emergency Disposal of Liquid Mercury Leakage. Industrial & Engineering Chemistry Research, 2019, 58, 21881-21889. | 1.8 | 28 |
| 43 | Elemental mercury oxidation over manganese oxide octahedral molecular sieve catalyst at low flue gas temperature. Chemical Engineering Journal, 2019, 356, 142-150. | 6.6 | 62 |
| 44 | Density Functional Theory Study of Mercury Adsorption on CuS Surface: Effect of Typical Flue Gas Components. Energy & Fuels, 2019, 33, 1540-1546. | 2.5 | 51 |
| 45 | Promotional effect of CuO loading on the catalytic activity and SO ₂ resistance of MnOx/TiO ₂ catalyst for simultaneous NO reduction and Hg ₀ oxidation. Fuel, 2018, 227, 79-88. | 3.4 | 73 |
| 46 | Synergistic effect of HCl and NO in elemental mercury catalytic oxidation over La ₂ O ₃ -TiO ₂ catalyst. Fuel, 2018, 215, 232-238. | 3.4 | 26 |
| 47 | Copper slag as a catalyst for mercury oxidation in coal combustion flue gas. Waste Management, 2018, 74, 253-259. | 3.7 | 64 |
| 48 | Dual Roles of Nano-Sulfide in Efficient Removal of Elemental Mercury from Coal Combustion Flue Gas within a Wide Temperature Range. Environmental Science & Technology, 2018, 52, 12926-12933. | 4.6 | 52 |
| 49 | NH ₃ inhibits mercury oxidation over low-temperature MnOx/TiO ₂ SCR catalyst. Fuel Processing Technology, 2018, 176, 124-130. | 3.7 | 39 |
| 50 | Multiform Sulfur Adsorption Centers and Copper-Terminated Active Sites of Nano-CuS for Efficient Elemental Mercury Capture from Coal Combustion Flue Gas. Langmuir, 2018, 34, 8739-8749. | 1.6 | 128 |
| 51 | Magnetic Rattle-Type Fe ₃ O ₄ @CuS Nanoparticles as Recyclable Sorbents for Mercury Capture from Coal Combustion Flue Gas. ACS Applied Nano Materials, 2018, 1, 4726-4736. | 2.4 | 100 |
| 52 | Ternary CdS/Au/3DOM-SrTiO ₃ composites with synergistic enhancement for hydrogen production from visible-light photocatalytic water splitting. Applied Catalysis B: Environmental, 2017, 215, 74-84. | 10.8 | 93 |
| 53 | Coexistence of enhanced Hg ₀ oxidation and induced Hg ²⁺ reduction on CuO/TiO ₂ catalyst in the presence of NO and NH ₃ . Chemical Engineering Journal, 2017, 330, 1248-1254. | 6.6 | 47 |
| 54 | Novel three-dimensionally ordered macroporous SrTiO ₃ photocatalysts with remarkably enhanced hydrogen production performance. Applied Catalysis B: Environmental, 2017, 200, 514-520. | 10.8 | 127 |

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|----|--|-----|-----------|
| 55 | Highly effective and stable Ag ₃ PO ₄ /WO ₃ photocatalysts for visible light degradation of organic dyes. Journal of Molecular Catalysis A, 2014, 391, 12-18. | 4.8 | 79 |