

Ceria and ceria-based nanostructured materials for photo

Nano Energy

34, 313-337

DOI: [10.1016/j.nanoen.2017.02.029](https://doi.org/10.1016/j.nanoen.2017.02.029)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Ultrasonic-assisted hydrothermal synthesis of ceria nanorods and their catalytic properties for toluene oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5054-5060. | 3.3 | 26 |
| 2 | Controlled Synthesis of CeO ₂ /NS-Au-CdS QDs Ternary Nanoheterostructure: A Promising Visible Light Responsive Photocatalyst for H ₂ Evolution. <i>Inorganic Chemistry</i> , 2017, 56, 12297-12307. | 1.9 | 50 |
| 3 | Mesoporous NiS ₂ Nanospheres Anode with Pseudocapacitance for High-Rate and Long-Life Sodium-Ion Battery. <i>Small</i> , 2017, 13, 1701744. | 5.2 | 168 |
| 4 | Solar fuel from photo-thermal catalytic reactions with spectrum-selectivity: a review. <i>Frontiers in Energy</i> , 2017, 11, 437-451. | 1.2 | 43 |
| 5 | Photovoltaic performance and stability of fullerene/cerium oxide double electron transport layer superior to single one in p-i-n perovskite solar cells. <i>Journal of Power Sources</i> , 2018, 389, 13-19. | 4.0 | 15 |
| 6 | Core-shell structured γ -Fe ₂ O ₃ @CeO ₂ heterojunction for the enhanced visible-light photocatalytic activity. <i>Materials Research Bulletin</i> , 2018, 101, 20-28. | 2.7 | 42 |
| 7 | Construction of Z-Scheme System for Enhanced Photocatalytic H ₂ Evolution Based on CdS Quantum Dots/CeO ₂ Nanorods Heterojunction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2552-2562. | 3.2 | 105 |
| 8 | Thermal characterization of Er-doped and Er-Gd co-doped ceria-based electrolyte materials for SOFC. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 1233-1239. | 2.0 | 19 |
| 9 | Poly(vinylpyrrolidone) tailored porous ceria as a carbon-free support for methanol electrooxidation. <i>Electrochimica Acta</i> , 2018, 290, 55-62. | 2.6 | 17 |
| 10 | Template synthesis of cobalt molybdenum sulfide hollow nanoboxes as enhanced bifunctional Pt-free electrocatalysts for dye-sensitized solar cells and alkaline hydrogen evolution. <i>Electrochimica Acta</i> , 2018, 289, 448-458. | 2.6 | 30 |
| 11 | Improving catalytic converter performance by controlling the structural and redox properties of Zr-doped CeO ₂ nanorods supported Pd catalysts. <i>Research on Chemical Intermediates</i> , 2018, 44, 7753-7767. | 1.3 | 2 |
| 12 | Ultrafast, Continuous and Shape-Controlled Preparation of CeO ₂ Nanostructures: Nanorods and Nanocubes in a Microfluidic System. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7525-7532. | 1.8 | 19 |
| 13 | Surface modification of CeO ₂ nanoflakes by low temperature plasma treatment to enhance imine yield: Influences of different plasma atmospheres. <i>Applied Surface Science</i> , 2018, 454, 173-180. | 3.1 | 27 |
| 14 | Crystal-plane-dependent metal oxide-support interaction in CeO ₂ /g-C ₃ N ₄ for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 111-118. | 10.8 | 178 |
| 15 | Ag/CeO ₂ Composites for Catalytic Abatement of CO, Soot and VOCs. <i>Catalysts</i> , 2018, 8, 285. | 1.6 | 65 |
| 16 | Ultrathin CdS shell-sensitized hollow S-doped CeO ₂ spheres for efficient visible-light photocatalysis. <i>Catalysis Science and Technology</i> , 2019, 9, 1357-1364. | 2.1 | 166 |
| 17 | Syntheses and Applications of Noble-Metal-free CeO ₂ -Based Mixed-Oxide Nanocatalysts. <i>Chem</i> , 2019, 5, 1743-1774. | 5.8 | 125 |
| 18 | Synergistic effects of Cu ₂ O-decorated CeO ₂ on photocatalytic CO ₂ reduction: Surface Lewis acid/base and oxygen defect. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 580-586. | 10.8 | 226 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Photocatalytic Hydrogen Production: Role of Sacrificial Reagents on the Activity of Oxide, Carbon, and Sulfide Catalysts. <i>Catalysts</i> , 2019, 9, 276. | 1.6 | 214 |
| 20 | Understanding CeO ₂ -Based Nanostructures through Advanced Electron Microscopy in 2D and 3D. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800287. | 1.2 | 22 |
| 21 | Ceria-Based Materials in Hydrogenation and Reforming Reactions for CO ₂ Valorization. <i>Frontiers in Chemistry</i> , 2019, 7, 28. | 1.8 | 98 |
| 22 | Multivariate comparison of photocatalytic properties of thirteen nanostructured metal oxides for water purification. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 851-864. | 0.9 | 9 |
| 23 | Oxygen Vacancy Generation and Stabilization in CeO ₂ by Cu Introduction with Improved CO ₂ Photocatalytic Reduction Activity. <i>ACS Catalysis</i> , 2019, 9, 4573-4581. | 5.5 | 364 |
| 24 | Green separation of rare earth elements by valence-selective crystallization of MOFs. <i>Chemical Communications</i> , 2019, 55, 14902-14905. | 2.2 | 9 |
| 25 | Hollow CeO ₂ spheres conformally coated with graphitic carbon for high-performance supercapacitor electrodes. <i>Applied Surface Science</i> , 2019, 463, 244-252. | 3.1 | 63 |
| 26 | Scalable synthesis of SnCo/NC composite as a high performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 775, 975-981. | 2.8 | 18 |
| 27 | Synthesis of ceria nanoparticles in pores of SBA-15: Pore size effect and influence of citric acid addition. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 10-16. | 2.2 | 28 |
| 28 | The synthesis and characterization of hydrous cerium oxide nanoparticles loaded on porous silica micro-sphere as novel and efficient adsorbents to remove phosphate radicals from water. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 73-81. | 2.2 | 32 |
| 29 | Towards carbon monoxide sensors based on europium doped cerium dioxide. <i>Applied Surface Science</i> , 2019, 464, 692-699. | 3.1 | 41 |
| 30 | Photoelectrodeposition effect of lanthanum oxide-modified ceria particles on the removal of lead (II) ions from water. <i>Catalysis Today</i> , 2019, 321-322, 128-134. | 2.2 | 9 |
| 31 | Catalytic applications of cerium dioxide. , 2020, , 45-108. | | 11 |
| 32 | Photocatalytic and photothermocatalytic applications of cerium oxide-based materials. , 2020, , 109-167. | | 17 |
| 33 | Photodegradation performances and transformation mechanism of sulfamethoxazole with CeO ₂ /CN heterojunction as photocatalyst. <i>Separation and Purification Technology</i> , 2020, 237, 116329. | 3.9 | 45 |
| 34 | Cerium oxide based materials for water treatment – A review. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104439. | 3.3 | 42 |
| 35 | Au-Decorated Ce-Ti Mixed Oxides for Efficient CO Preferential Photooxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38019-38030. | 4.0 | 12 |
| 36 | Electrochemical Response of Highly Porous Percolative CGO Electrospun Membranes. <i>Catalysts</i> , 2020, 10, 756. | 1.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Self-assembled bio-inspired Au/CeO ₂ nano-composites for visible white LED light irradiated photocatalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 599, 124908. | 2.3 | 20 |
| 38 | Construction of metal-organic framework-derived CeO ₂ /C integrated MoS ₂ hybrid for high-performance asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2020, 353, 136502. | 2.6 | 75 |
| 39 | Heterojunction photocatalyst for organic degradation: Superior photocatalytic activity through the phase and interface engineering. <i>Ceramics International</i> , 2020, 46, 23245-23256. | 2.3 | 14 |
| 40 | Novel Approaches of Nanocerium with Magnetic, Photoluminescent, and Gas-Sensing Properties. <i>ACS Omega</i> , 2020, 5, 14879-14889. | 1.6 | 16 |
| 41 | All solid-state Z-scheme CeO ₂ /ZnIn ₂ S ₄ hybrid for the photocatalytic selective oxidation of aromatic alcohols coupled with hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119235. | 10.8 | 119 |
| 42 | Accelerated generation of hydroxyl radical through surface polarization on BiVO ₄ microtubes for efficient chlortetracycline degradation. <i>Chemical Engineering Journal</i> , 2020, 400, 125871. | 6.6 | 49 |
| 43 | Organic-Rare Earth Hybrid Anode with Superior Cyclability for Lithium Ion Battery. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902168. | 1.9 | 15 |
| 44 | Efficient Photon Conversion via Double Charge Dynamics CeO ₂ /BiFeO ₃ Heterojunction Photocatalyst Promising toward N ₂ Fixation and Phenol-Cr(VI) Detoxification. <i>Inorganic Chemistry</i> , 2020, 59, 3856-3873. | 1.9 | 98 |
| 45 | Macro-Porous Ceria Photocatalysts Synthesized Using Silica Nanospheres for Efficient Adsorption and UV-Photocatalysis System. <i>Journal of Chemical Engineering of Japan</i> , 2020, 53, 120-125. | 0.3 | 1 |
| 46 | Photoreductive dissolution of cerium oxide nanoparticles and their size-dependent absorption properties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5756-5764. | 1.3 | 11 |
| 47 | Preparation of pyramidal SnO/CeO ₂ nano-heterojunctions with enhanced photocatalytic activity for degradation of tetracycline. <i>Nanotechnology</i> , 2020, 31, 215702. | 1.3 | 19 |
| 48 | The synthesis of monodispersed M-CeO ₂ /SiO ₂ nanoparticles and formation of UV absorption coatings with them. <i>RSC Advances</i> , 2020, 10, 4554-4560. | 1.7 | 4 |
| 49 | Semiconductor mixed oxides as innovative materials for the photocatalytic removal of organic pollutants. , 2020, , 385-430. | | 1 |
| 50 | Effect of Cr doping in CeO ₂ nanostructures on photocatalysis and H ₂ O ₂ assisted methylene blue dye degradation. <i>Catalysis Today</i> , 2021, 375, 506-513. | 2.2 | 85 |
| 51 | Ag-CeO ₂ /SBA-15 composite prepared from Pluronic P123@SBA-15 hybrid as catalyst for room-temperature reduction of 4-nitrophenol. <i>Catalysis Today</i> , 2021, 375, 576-584. | 2.2 | 21 |
| 52 | Ni-Fe-WS _x polynary hollow nanoboxes as promising electrode catalysts for high-efficiency triiodide reduction in dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156899. | 2.8 | 34 |
| 53 | Enhanced solar photoreduction of CO ₂ to liquid fuel over rGO grafted NiO-CeO ₂ heterostructure nanocomposite. <i>Nano Energy</i> , 2021, 79, 105483. | 8.2 | 51 |
| 54 | Crystal facet and surface defect engineered low dimensional CeO ₂ (0D, 1D, 2D) based photocatalytic materials towards energy generation and pollution abatement. <i>Materials Advances</i> , 2021, 2, 6942-6983. | 2.6 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Ceria doping boosts methylene blue photodegradation in titania nanostructures. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4138-4152. | 3.2 | 23 |
| 56 | Electrocatalytic property of nitrogen-doped graphite-supported CeO ₂ -CoOx. <i>Materials Research Express</i> , 2021, 8, 035510. | 0.8 | 2 |
| 57 | Biomass-Assisted Synthesis of CeO ₂ Nanorods for CO ₂ Photoreduction under Visible Light. <i>ACS Applied Nano Materials</i> , 2021, 4, 4226-4237. | 2.4 | 15 |
| 58 | Direct Z-scheme CeO ₂ @LDH core-shell heterostructure for photodegradation of Rhodamine B by synergistic persulfate activation. <i>Journal of Hazardous Materials</i> , 2021, 408, 124908. | 6.5 | 134 |
| 59 | Exploring the enhancement effects of hetero-metal doping in CeO ₂ on CO ₂ photocatalytic reduction performance. <i>Chemical Engineering Journal</i> , 2022, 427, 130987. | 6.6 | 34 |
| 60 | Ceria-Based Materials for Thermocatalytic and Photocatalytic Organic Synthesis. <i>ACS Catalysis</i> , 2021, 11, 9618-9678. | 5.5 | 146 |
| 61 | One-step synthesis of reduced graphene oxide based ceric dioxide modified with cadmium sulfide (CeO ₂ /CdS/RGO) heterojunction with enhanced sunlight-driven photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 621-634. | 5.0 | 38 |
| 62 | The gas sensor utilizing CeO ₂ nanorods for the low temperature detection of hydrogen. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108692. | 1.8 | 15 |
| 63 | Effect of Additional Doping of the Cu-Mn-Ce-O Solid Solution on the Catalytic Properties. <i>Russian Journal of Inorganic Chemistry</i> , 2021, 66, 1212-1216. | 0.3 | 5 |
| 64 | Facile in-situ synthesis of floating CeO ₂ @ expanded graphite composites with efficient adsorption and visible light photocatalytic degradation of phenol. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106252. | 3.3 | 2 |
| 65 | Citric acid-assisted ultrasmall CeO ₂ nanoparticles for efficient photocatalytic degradation of glyphosate. <i>Chemical Engineering Journal</i> , 2021, 425, 130640. | 6.6 | 43 |
| 66 | In-situ annealed M-scheme MXene-based photocatalyst for enhanced photoelectric performance and highly selective CO ₂ photoreduction. <i>Nano Energy</i> , 2021, 90, 106532. | 8.2 | 27 |
| 67 | A Review on CeO ₂ -Based Electrocatalyst and Photocatalyst in Energy Conversion. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000063. | 2.8 | 60 |
| 68 | Construction of core-shell heterojunction regulating γ -Fe ₂ O ₃ layer on CeO ₂ nanotube arrays enables highly efficient Z-scheme photoelectrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119138. | 10.8 | 210 |
| 69 | Recent Advances in Heteroatom Doped Graphitic Carbon Nitride (g-C ₃ N ₄) and g-C ₃ N ₄ /Metal Oxide Composite Photocatalysts. <i>Current Organic Chemistry</i> , 2020, 24, 673-693. | 0.9 | 33 |
| 70 | CeO ₂ quantum dots anchored g-C ₃ N ₄ : synthesis, characterization and photocatalytic performance. <i>Applied Surface Science</i> , 2022, 576, 151901. | 3.1 | 19 |
| 71 | Ceria and rare earth oxides (R ₂ O ₃) ceramic nanomaterials. , 2022, , 13-45. | | 0 |
| 72 | External influences of cactus type composite for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163813. | 2.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Construction of 0d/2d CeO ₂ /CdS Direct Z-Scheme Heterostructures for Effective Photocatalytic H ₂ Evolution and Cr(VI) Reduction. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 74 | Carbon Nanotube-Threaded Mesocrystalline CeO ₂ for Enhanced Photocatalytic NO Removal. ACS Applied Nano Materials, 2022, 5, 3581-3590. | 2.4 | 12 |
| 75 | Effect of the Ag ⁺ /CeO ₂ interaction and the nature of pore structure on the catalytic activities of different Ag ⁺ /CeO ₂ /mesoporous-SiO ₂ catalysts on the reduction of 4-nitrophenol. Journal of Porous Materials, 2022, 29, 893-906. | 1.3 | 3 |
| 76 | Thermal tuning of the morphology of hydrothermally synthesized CeO ₂ nanotubes for photocatalytic applications. Ceramics International, 2022, 48, 17802-17815. | 2.3 | 4 |
| 77 | Preparation of CeO ₂ /UiO-66-NH ₂ Heterojunction and Study on a Photocatalytic Degradation Mechanism. Materials, 2022, 15, 2564. | 1.3 | 4 |
| 78 | Facile fabrication of efficient Pr ₂ Ce ₂ O ₇ ceramic nanostructure for enhanced photocatalytic performances under solar light. Ceramics International, 2022, 48, 24695-24705. | 2.3 | 44 |
| 79 | Ag ⁺ /CeO ₂ Composite Aerogels as Photocatalysts for CO ₂ Reduction. ACS Applied Energy Materials, 2022, 5, 7335-7345. | 2.5 | 20 |
| 80 | Disordered Structure and Enhanced Redox Properties of Gd-Doped CeO ₂ -TiO ₂ Induced by Oxygen Vacancies. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 81 | Highly efficient CeO ₂ -supported noble-metal catalysts: From single atoms to nanoclusters. Chem Catalysis, 2022, 2, 1594-1623. | 2.9 | 39 |
| 83 | Construction of 0D/2D CeO ₂ /CdS direct Z-scheme heterostructures for effective photocatalytic H ₂ evolution and Cr(VI) reduction. Separation and Purification Technology, 2022, 295, 121294. | 3.9 | 32 |
| 85 | Collaborative influence of morphology tuning and RE (La, Y, and Sm) doping on photocatalytic performance of nanocerium. Environmental Science and Pollution Research, 2022, 29, 88866-88881. | 2.7 | 4 |
| 86 | Mechanistic Investigation of Enhanced Catalytic Selectivity toward Alcohol Oxidation with Ce Oxysulfate Clusters. Journal of the American Chemical Society, 2022, 144, 12092-12101. | 6.6 | 6 |
| 87 | Using a CeO ₂ quantum dot hole extraction-layer for enhanced solar water splitting activity of BiVO ₄ photoanodes. Chemical Engineering Journal, 2022, 450, 137917. | 6.6 | 20 |
| 88 | Structural, morphological and optical properties of Ni-doped CeO ₂ nanospheres prepared by surfactant free co-precipitation technique. Open Journal of Science and Technology, 2021, 4, 165-177. | 0.2 | 1 |
| 89 | Photoluminescence Response and Magnetic Character of Iron Doped Ceria Thin Films. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 90 | Facile Synthesis of Stable Cerium Dioxide Sols in Nonpolar Solvents. Molecules, 2022, 27, 5028. | 1.7 | 4 |
| 91 | Nano-CeO ₂ -loaded chitosan-bocglycine zinc complex for the photocatalytic degradation of picric acid by the combination of Fenton TM s reagent. Applied Physics A: Materials Science and Processing, 2022, 128, . | 1.1 | 4 |
| 92 | A sensitive electrochemical sensor for nitenpyram detection based on CeO ₂ /MWCNTs nanocomposite. Applied Physics A: Materials Science and Processing, 2022, 128, . | 1.1 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 93 | Synthesis of porous biocarbon supported Ni ₃ S ₄ /CeO ₂ nanocomposite as high-efficient electrode materials for asymmetric supercapacitors. <i>Journal of Saudi Chemical Society</i> , 2022, 26, 101530. | 2.4 | 9 |
| 94 | In-situ Synthesis of Direct Z-scheme 2D/2D ZnIn ₂ S ₄ @CeO ₂ Heterostructure Toward Enhanced Photodegradation and Cr(VI) Reduction. <i>SSRN Electronic Journal</i> , 0, , . | 0.4 | 0 |
| 95 | A Review of CeO ₂ Supported Catalysts for CO ₂ Reduction to CO through the Reverse Water Gas Shift Reaction. <i>Catalysts</i> , 2022, 12, 1101. | 1.6 | 30 |
| 96 | Structure and Surface Relaxation of CeO ₂ Nanoparticles Unveiled by Combining Real and Reciprocal Space Total Scattering Analysis. <i>Nanomaterials</i> , 2022, 12, 3385. | 1.9 | 1 |
| 97 | Insight into symmetry matching heterogeneous facet junction photocatalysts via {211} faceted CeO ₂ nanobelts@I-Bi ₂ O ₃ nanowires. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 39070-39080. | 3.8 | 1 |
| 98 | In-situ synthesis of direct Z-scheme 2D/2D ZnIn ₂ S ₄ @CeO ₂ heterostructure toward enhanced photodegradation and Cr(VI) reduction. <i>Journal of Alloys and Compounds</i> , 2023, 931, 167430. | 2.8 | 15 |
| 99 | Co-catalyst free direct Z-scheme photocatalytic system with simultaneous hydrogen evolution and degradation of organic pollutants. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 576-585. | 3.8 | 10 |
| 100 | Modification of Polymeric Carbon Nitride with Au-CeO ₂ Hybrids to Improve Photocatalytic Activity for Hydrogen Evolution. <i>Molecules</i> , 2022, 27, 7489. | 1.7 | 2 |
| 101 | CeO ₂ -CDs clusters decorated Co(OH) ₂ nanosheets for improved photocatalytic ammonia synthesis. <i>Journal of Colloid and Interface Science</i> , 2023, 634, 642-650. | 5.0 | 9 |
| 102 | Recent advances and perspectives of CeO ₂ -based catalysts: Electronic properties and applications for energy storage and conversion. <i>Frontiers in Chemistry</i> , 0, 10, . | 1.8 | 6 |
| 103 | Syntheses and Redox Properties of Carboxylate-Ligated Hexanuclear Ce(IV) Clusters and Their Photoinduced Homolysis of the Ce(IV)-Ligand Covalent Bond. <i>Inorganic Chemistry</i> , 2022, 61, 20461-20471. | 1.9 | 1 |
| 104 | F-doped CeO ₂ supported Co-based nanoparticles for enhanced photocatalytic H ₂ evolution from ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 13202-13212. | 3.8 | 7 |
| 105 | Heterojunction of CuMn ₂ O ₄ /CeO ₂ nanocomposites for promoted photocatalytic H ₂ evolution under visible light. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, 143, 104692. | 2.7 | 10 |
| 106 | Double-layered core-shell heterostructures of mSiO ₂ @CdS@CeO ₂ abrasive systems toward photochemical mechanical polishing (PCMP) applications. <i>Applied Surface Science</i> , 2023, 614, 156274. | 3.1 | 9 |
| 107 | Engineering covalently integrated COF@CeO ₂ Z-scheme heterostructure for visible light driven photocatalytic CO ₂ conversion. <i>Applied Surface Science</i> , 2023, 615, 156335. | 3.1 | 4 |
| 108 | Stepwise photoassisted decomposition of carbohydrates to H ₂ . <i>Joule</i> , 2023, 7, 333-349. | 11.7 | 11 |
| 109 | Highly dispersed Gd-CeO ₂ nanocrystals supported on mesoporous silica composite particles towards photochemical (photo-assisted chemical) mechanical polishing. <i>Ceramics International</i> , 2023, 49, 16932-16943. | 2.3 | 6 |
| 110 | Ceria-based photocatalysts in water-splitting for hydrogen production and carbon dioxide reduction. <i>Catalysis Reviews - Science and Engineering</i> , 0, , 1-78. | 5.7 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 111 | Ceria-Based Therapeutic Antioxidants for Biomedical Applications. <i>Advanced Materials</i> , 2024, 36, . | 11.1 | 14 |
| 112 | Synergetic Effect of Fe ₂ O ₃ Doped-CeO ₂ Nanocomposites Prepared via Different Techniques on Photocatalytic Desulfurization of Heavy Gas Oil. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 15837-15850. | 1.7 | 1 |
| 113 | The Relationship between Photoluminescence Emissions and Photocatalytic Activity of CeO ₂ Nanocrystals. <i>Inorganic Chemistry</i> , 2023, 62, 4291-4303. | 1.9 | 4 |
| 114 | Enhanced redox properties of Gd-doped CeO ₂ -TiO ₂ induced by oxygen vacancies and disordered structure. <i>Materials Today Chemistry</i> , 2023, 29, 101440. | 1.7 | 1 |
| 115 | Metal Oxide Aerogels: A New Horizon for Stabilizing Anodes in Rechargeable Zinc Metal Batteries. <i>Advanced Energy Materials</i> , 2023, 13, . | 10.2 | 11 |
| 121 | Cerium-based nanomaterials for photo/electrocatalysis. <i>Science China Chemistry</i> , 2023, 66, 2204-2220. | 4.2 | 2 |
| 123 | Recent progress and prospects of rare earth elements for advanced aqueous zinc batteries. <i>Inorganic Chemistry Frontiers</i> , 2023, 10, 5802-5811. | 3.0 | 5 |