

Dong Liu

List of Publications by Year in descending order

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576
papers

19,069
citations

17405

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30848

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587
all docs

587
docs citations

587
times ranked

18205
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Deep High-Resolution Representation Learning for Visual Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3349-3364. | 9.7 | 1,553 |
| 2 | STING directly activates autophagy to tune the innate immune response. Cell Death and Differentiation, 2019, 26, 1735-1749. | 5.0 | 247 |
| 3 | A Convolutional Neural Network Approach for Post-Processing in HEVC Intra Coding. Lecture Notes in Computer Science, 2017, , 28-39. | 1.0 | 211 |
| 4 | Autophagy protects auditory hair cells against neomycin-induced damage. Autophagy, 2017, 13, 1884-1904. | 4.3 | 195 |
| 5 | Postcollisional potassic and ultrapotassic rocks in southern Tibet: Mantle and crustal origins in response to India-Asia collision and convergence. Geochimica Et Cosmochimica Acta, 2014, 143, 207-231. | 1.6 | 187 |
| 6 | Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. Nature Communications, 2019, 10, 1779. | 5.8 | 185 |
| 7 | Novel conductive binder for high-performance silicon anodes in lithium ion batteries. Nano Energy, 2017, 36, 206-212. | 8.2 | 178 |
| 8 | Noble-Metal-Free Janus-Like Structures by Cation Exchange for Z-Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. Angewandte Chemie - International Edition, 2017, 56, 4206-4210. | 7.2 | 166 |
| 9 | Hypoxic mitophagy regulates mitochondrial quality and platelet activation and determines severity of I/R heart injury. ELife, 2016, 5, . | 2.8 | 158 |
| 10 | Nanowire Photoelectrochemistry. Chemical Reviews, 2019, 119, 9221-9259. | 23.0 | 158 |
| 11 | Arabidopsis PHL2 and PHR1 Act Redundantly as the Key Components of the Central Regulatory System Controlling Transcriptional Responses to Phosphate Starvation. Plant Physiology, 2016, 170, 499-514. | 2.3 | 155 |
| 12 | Surface Reconstruction and Phase Transition on Vanadium-Cobalt-Iron Trimetal Nitrides to Form Active Oxyhydroxide for Enhanced Electrocatalytic Water Oxidation. Advanced Energy Materials, 2020, 10, 2002464. | 10.2 | 155 |
| 13 | Metastasis-associated miR-23a from nasopharyngeal carcinoma-derived exosomes mediates angiogenesis by repressing a novel target gene TSGA10. Oncogene, 2018, 37, 2873-2889. | 2.6 | 154 |
| 14 | Image Compression With Edge-Based Inpainting. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1273-1287. | 5.6 | 152 |
| 15 | Functionalization of graphene materials by heteroatom-doping for energy conversion and storage. Progress in Natural Science: Materials International, 2018, 28, 121-132. | 1.8 | 148 |
| 16 | The Big Five personality traits, Big Two metatraits and social media: A meta-analysis. Journal of Research in Personality, 2017, 70, 229-240. | 0.9 | 144 |
| 17 | Ft1 acts as a negative regulator of tip cell formation and branching morphogenesis in the zebrafish embryo. Development (Cambridge), 2011, 138, 2111-2120. | 1.2 | 142 |
| 18 | Northward subduction of Bangong-Nujiang Tethys: Insight from Late Jurassic intrusive rocks from Bangong Tso in western Tibet. Lithos, 2014, 205, 284-297. | 0.6 | 140 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Facile Processing of Free-Standing Polyaniline/SWCNT Film as an Integrated Electrode for Flexible Supercapacitor Application. ACS Applied Materials & Interfaces, 2017, 9, 33791-33801. | 4.0 | 139 |
| 20 | Integration of Multiple Plasmonic and Co-Catalyst Nanostructures on TiO ₂ Nanosheets for Visible-Near-Infrared Photocatalytic Hydrogen Evolution. Small, 2016, 12, 1640-1648. | 5.2 | 136 |
| 21 | Deficiency of mitophagy receptor FUNDC1 impairs mitochondrial quality and aggravates dietary-induced obesity and metabolic syndrome. Autophagy, 2019, 15, 1882-1898. | 4.3 | 131 |
| 22 | Pseudo-sequence-based light field image compression. , 2016, , . | | 130 |
| 23 | A Meta-Analysis of Social Networking Online and Social Capital. Review of General Psychology, 2016, 20, 369-391. | 2.1 | 129 |
| 24 | Large-area synthesis of monolayer WSe ₂ on a SiO ₂ /Si substrate and its device applications. Nanoscale, 2015, 7, 4193-4198. | 2.8 | 128 |
| 25 | Social networking online and personality of self-worth: A meta-analysis. Journal of Research in Personality, 2016, 64, 79-89. | 0.9 | 128 |
| 26 | Combustion chemistry and flame structure of furan group biofuels using molecular-beam mass spectrometry and gas chromatography â€œ Part III: 2,5-Dimethylfuran. Combustion and Flame, 2014, 161, 780-797. | 2.8 | 127 |
| 27 | Multi-Scale Triplet CNN for Person Re-Identification. , 2016, , . | | 124 |
| 28 | Ultrathin-metal-film-based transparent electrodes with relative transmittance surpassing 100%. Nature Communications, 2020, 11, 3367. | 5.8 | 123 |
| 29 | Enhanced full-spectrum water splitting by confining plasmonic Au nanoparticles in N-doped TiO ₂ bowl nanoarrays. Nano Energy, 2016, 24, 87-93. | 8.2 | 118 |
| 30 | Combustion chemistry and flame structure of furan group biofuels using molecular-beam mass spectrometry and gas chromatography â€œ Part I: Furan. Combustion and Flame, 2014, 161, 748-765. | 2.8 | 117 |
| 31 | Self-disclosure on social networking sites, positive feedback, and social capital among Chinese college students. Computers in Human Behavior, 2014, 38, 213-219. | 5.1 | 116 |
| 32 | Combustion chemistry and flame structure of furan group biofuels using molecular-beam mass spectrometry and gas chromatography â€œ Part II: 2-Methylfuran. Combustion and Flame, 2014, 161, 766-779. | 2.8 | 110 |
| 33 | Dominant-Current Deep Learning Scheme for Electrical Impedance Tomography. IEEE Transactions on Biomedical Engineering, 2019, 66, 2546-2555. | 2.5 | 109 |
| 34 | Origin of the ca. 90 Ma magnesia-rich volcanic rocks in SE Nyima, central Tibet: Products of lithospheric delamination beneath the Lhasa-Qiangtang collision zone. Lithos, 2014, 198-199, 24-37. | 0.6 | 106 |
| 35 | Convolutional Neural Network-Based Block Up-Sampling for Intra Frame Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2316-2330. | 5.6 | 103 |
| 36 | Pd-Ag alloy hollow nanostructures with interatomic charge polarization for enhanced electrocatalytic formic acid oxidation. Nano Research, 2016, 9, 1590-1599. | 5.8 | 102 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Motives Matter: Motives for Playing Pokémon Go and Implications for Well-Being. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2017, 20, 52-57. | 2.1 | 100 |
| 38 | The Nature of Photocatalytic "Water Splitting" on Silicon Nanowires. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2980-2985. | 7.2 | 97 |
| 39 | A compact Cas9 ortholog from <i>Staphylococcus Auricularis</i> (SauriCas9) expands the DNA targeting scope. <i>PLoS Biology</i> , 2020, 18, e3000686. | 2.6 | 96 |
| 40 | Flame structure and kinetic studies of carbon dioxide-diluted dimethyl ether flames at reduced and elevated pressures. <i>Combustion and Flame</i> , 2013, 160, 2654-2668. | 2.8 | 95 |
| 41 | Hypoxia-Induced Matrix Metalloproteinase-13 Expression in Exosomes from Nasopharyngeal Carcinoma Enhances Metastases. <i>Cell Death and Disease</i> , 2018, 9, 382. | 2.7 | 92 |
| 42 | Reconstruction of soot temperature and volume fraction profiles of an asymmetric flame using stereoscopic tomography. <i>Combustion and Flame</i> , 2009, 156, 565-573. | 2.8 | 91 |
| 43 | An episomal vector-based CRISPR/Cas9 system for highly efficient gene knockout in human pluripotent stem cells. <i>Scientific Reports</i> , 2017, 7, 2320. | 1.6 | 91 |
| 44 | Chemical Approaches to Carbon-Based Metal-Free Catalysts. <i>Advanced Materials</i> , 2019, 31, e1804863. | 11.1 | 90 |
| 45 | Strong Metal-Support Interaction Boosts Activity, Selectivity, and Stability in Electrosynthesis of H_2O_2 . <i>Journal of the American Chemical Society</i> , 2022, 144, 2255-2263. | 6.6 | 90 |
| 46 | Geochronology and geochemistry of the Early Jurassic Yeba Formation volcanic rocks in southern Tibet: Initiation of back-arc rifting and crustal accretion in the southern Lhasa Terrane. <i>Lithos</i> , 2017, 278-281, 477-490. | 0.6 | 89 |
| 47 | A meta-analysis of the relationship of academic performance and Social Network Site use among adolescents and young adults. <i>Computers in Human Behavior</i> , 2017, 77, 148-157. | 5.1 | 89 |
| 48 | Branched comb-shaped poly(arylene ether sulfone)s containing flexible alkyl imidazolium side chains as anion exchange membranes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10879-10890. | 5.2 | 88 |
| 49 | Learning a Convolutional Neural Network for Image Compact-Resolution. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 1092-1107. | 6.0 | 87 |
| 50 | Zircon xenocrysts in Tibetan ultrapotassic magmas: Imaging the deep crust through time. <i>Geology</i> , 2014, 42, 43-46. | 2.0 | 85 |
| 51 | Preparation of porous $MoO_2@C$ nano-octahedrons from a polyoxometalate-based metal-organic framework for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12434-12441. | 5.2 | 83 |
| 52 | Identifying mantle carbonatite metasomatism through Os-Sr-Mg isotopes in Tibetan ultrapotassic rocks. <i>Earth and Planetary Science Letters</i> , 2015, 430, 458-469. | 1.8 | 82 |
| 53 | Photoelectrocatalytic degradation of methylene blue using F doped TiO_2 photoelectrode under visible light irradiation. <i>Chemosphere</i> , 2017, 185, 574-581. | 4.2 | 82 |
| 54 | Deep Learning-Based Video Coding. <i>ACM Computing Surveys</i> , 2021, 53, 1-35. | 16.1 | 78 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Effects of butanol isomers additions on soot nanostructure and reactivity in normal and inverse ethylene diffusion flames. <i>Fuel</i> , 2017, 205, 109-129. | 3.4 | 77 |
| 56 | Facile synthesis of three-dimensional hollow porous carbon doped polymeric carbon nitride with highly efficient photocatalytic performance. <i>Chemical Engineering Journal</i> , 2022, 438, 135623. | 6.6 | 74 |
| 57 | An Efficient Four-Parameter Affine Motion Model for Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018, 28, 1934-1948. | 5.6 | 73 |
| 58 | Genetic Dissection of Fe-Dependent Signaling in Root Developmental Responses to Phosphate Deficiency. <i>Plant Physiology</i> , 2019, 179, 300-316. | 2.3 | 72 |
| 59 | Self-templating synthesis of heteroatom-doped large-scalable carbon anodes for high-performance lithium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1058-1069. | 3.0 | 72 |
| 60 | Deep Learning-Based Classification of Liver Cancer Histopathology Images Using Only Global Labels. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1643-1651. | 3.9 | 71 |
| 61 | Nitrogen-rich holey graphene for efficient oxygen reduction reaction. <i>Carbon</i> , 2020, 162, 66-73. | 5.4 | 71 |
| 62 | A Parametric Level Set Method for Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 451-460. | 5.4 | 70 |
| 63 | Dimethyl Carbonate as a Promising Oxygenated Fuel for Combustion: A Review. <i>Energies</i> , 2018, 11, 1552. | 1.6 | 70 |
| 64 | Enhanced visible light photoelectrocatalytic degradation of tetracycline hydrochloride by I and P co-doped TiO ₂ photoelectrode. <i>Journal of Hazardous Materials</i> , 2021, 406, 124309. | 6.5 | 70 |
| 65 | A computer vision-based method for spatial-temporal action recognition of tail-biting behaviour in group-housed pigs. <i>Biosystems Engineering</i> , 2020, 195, 27-41. | 1.9 | 70 |
| 66 | MicroRNA-10a/10b represses a novel target gene mib1 to regulate angiogenesis. <i>Cardiovascular Research</i> , 2016, 110, 140-150. | 1.8 | 69 |
| 67 | Improving triplet-wise training of convolutional neural network for vehicle re-identification. , 2017, , . | | 69 |
| 68 | Nitrogen, Sulfur Co-Doped Hierarchically Porous Carbon as a Metal-Free Electrocatalyst for Oxygen Reduction and Carbon Dioxide Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44578-44587. | 4.0 | 69 |
| 69 | Dark-field microscopic image stitching method for surface defects evaluation of large fine optics. <i>Optics Express</i> , 2013, 21, 5974. | 1.7 | 68 |
| 70 | Highly improved electrocatalytic activity of NiS _x : Effects of Cr-doping and phase transition. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118721. | 10.8 | 68 |
| 71 | Differential Gene Expression Profiling and Biological Process Analysis in Proximal Nerve Segments after Sciatic Nerve Transection. <i>PLoS ONE</i> , 2013, 8, e57000. | 1.1 | 67 |
| 72 | Nanostructure evolution and reactivity of nascent soot from inverse diffusion flames in CO ₂ , N ₂ , and He atmospheres. <i>Carbon</i> , 2018, 139, 172-180. | 5.4 | 66 |

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|----|---|------|-----------|
| 73 | Practical methods for retrace error correction in nonnull aspheric testing. <i>Optics Express</i> , 2009, 17, 7025. | 1.7 | 64 |
| 74 | Flexible Near-Infrared Photovoltaic Devices Based on Plasmonic Hot-Electron Injection into Silicon Nanowire Arrays. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4577-4581. | 7.2 | 64 |
| 75 | Convolutional Neural Network-Based Fractional-Pixel Motion Compensation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019, 29, 840-853. | 5.6 | 64 |
| 76 | Silicon nanostructures for solar-driven catalytic applications. <i>Nano Today</i> , 2017, 17, 96-116. | 6.2 | 63 |
| 77 | Pseudo-Sequence-Based 2-D Hierarchical Coding Structure for Light-Field Image Compression. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017, 11, 1107-1119. | 7.3 | 63 |
| 78 | Prescribed Performance Model-Free Adaptive Integral Sliding Mode Control for Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019, 30, 2222-2230. | 7.2 | 63 |
| 79 | miR-30a Regulates Endothelial Tip Cell Formation and Arteriolar Branching. <i>Hypertension</i> , 2013, 62, 592-598. | 1.3 | 62 |
| 80 | Noble-Metal-Free Janus-Like Structures by Cation Exchange for Z-Scheme Photocatalytic Water Splitting under Broadband Light Irradiation. <i>Angewandte Chemie</i> , 2017, 129, 4270-4274. | 1.6 | 62 |
| 81 | Enhanced visible light photoelectrocatalytic degradation of organic contaminants by F and Sn co-doped TiO ₂ photoelectrode. <i>Chemical Engineering Journal</i> , 2018, 344, 332-341. | 6.6 | 62 |
| 82 | Carbon nanotubes with fluorine-rich surface as metal-free electrocatalyst for effective synthesis of urea from nitrate and CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121618. | 10.8 | 62 |
| 83 | End-to-End Optimized Versatile Image Compression With Wavelet-Like Transform. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 1247-1263. | 9.7 | 61 |
| 84 | Boron, nitrogen co-doped carbon with abundant mesopores for efficient CO ₂ electroreduction. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120543. | 10.8 | 61 |
| 85 | Topological Defect-Rich Carbon as a Metal-Free Cathode Catalyst for High-Performance Li ₂ CO ₂ Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101390. | 10.2 | 60 |
| 86 | Data-Driven Adaptive Sliding Mode Control of Nonlinear Discrete-Time Systems With Prescribed Performance. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 2598-2604. | 5.9 | 59 |
| 87 | Microscopic scattering imaging measurement and digital evaluation system of defects for fine optical surface. <i>Optics Communications</i> , 2007, 278, 240-246. | 1.0 | 58 |
| 88 | Practical phase unwrapping of interferometric fringes based on unscented Kalman filter technique. <i>Optics Express</i> , 2015, 23, 32337. | 1.7 | 58 |
| 89 | Media Niche of Electronic Communication Channels in Friendship: A Meta-Analysis. <i>Journal of Computer-Mediated Communication</i> , 2016, 21, 451-466. | 1.7 | 58 |
| 90 | Synthesis and properties of highly branched polybenzimidazoles as proton exchange membranes for high-temperature fuel cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4814-4821. | 2.7 | 58 |

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|-----|--|------|-----------|
| 91 | Assessing the depolarization capabilities of nonspherical particles in a super-ellipsoidal shape space. <i>Optics Express</i> , 2018, 26, 1726. | 1.7 | 57 |
| 92 | A Parametric Level Set-Based Approach to Difference Imaging in Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 145-155. | 5.4 | 57 |
| 93 | Nonlinear Difference Imaging Approach to Three-Dimensional Electrical Impedance Tomography in the Presence of Geometric Modeling Errors. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1956-1965. | 2.5 | 56 |
| 94 | Experimental reconstructions of flame temperature distributions in laboratory-scale and large-scale pulverized-coal fired furnaces by inverse radiation analysis. <i>Fuel</i> , 2012, 93, 397-403. | 3.4 | 55 |
| 95 | NiFe Hydroxide Lattice Tensile Strain: Enhancement of Adsorption of Oxygenated Intermediates for Efficient Water Oxidation Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 746-750. | 1.6 | 55 |
| 96 | One-for-All: Grouped Variation Network-Based Fractional Interpolation in Video Coding. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 2140-2151. | 6.0 | 55 |
| 97 | Birth cohort changes of Chinese adolescents' anxiety: A cross-temporal meta-analysis, 1992-2005. <i>Personality and Individual Differences</i> , 2010, 48, 208-212. | 1.6 | 54 |
| 98 | Relative roles of spatial factors, environmental filtering and biotic interactions in fine-scale structuring of a soil mite community. <i>Soil Biology and Biochemistry</i> , 2014, 79, 68-77. | 4.2 | 54 |
| 99 | Solar energy conversion with tunable plasmonic nanostructures for thermoelectric devices. <i>Nanoscale</i> , 2012, 4, 4416. | 2.8 | 53 |
| 100 | NgAgo-based fabp11a gene knockdown causes eye developmental defects in zebrafish. <i>Cell Research</i> , 2016, 26, 1349-1352. | 5.7 | 53 |
| 101 | pH-sensitive zwitterionic coating of gold nanocages improves tumor targeting and photothermal treatment efficacy. <i>Nano Research</i> , 2018, 11, 3193-3204. | 5.8 | 53 |
| 102 | Retrieval and analysis of a polarized high-spectral-resolution lidar for profiling aerosol optical properties. <i>Optics Express</i> , 2013, 21, 13084. | 1.7 | 52 |
| 103 | Breaking the symmetry: Gradient in NiFe layered double hydroxide nanoarrays for efficient oxygen evolution. <i>Nano Energy</i> , 2019, 60, 661-666. | 8.2 | 52 |
| 104 | 3D interconnected porous g-C ₃ N ₄ hybridized with Fe ₂ O ₃ quantum dots for enhanced photo-Fenton performance. <i>Applied Surface Science</i> , 2021, 555, 149677. | 3.1 | 52 |
| 105 | A nonlinear approach to difference imaging in EIT; assessment of the robustness in the presence of modelling errors. <i>Inverse Problems</i> , 2015, 31, 035012. | 1.0 | 51 |
| 106 | Plasmonic Coupling Architectures for Enhanced Photocatalysis. <i>Advanced Materials</i> , 2021, 33, e2005738. | 11.1 | 51 |
| 107 | Single copper sites dispersed on hierarchically porous carbon for improving oxygen reduction reaction towards zinc-air battery. <i>Nano Research</i> , 2021, 14, 998-1003. | 5.8 | 50 |
| 108 | Laminar flame propagation and ignition properties of premixed iso-octane/air with hydrogen addition. <i>Fuel</i> , 2015, 158, 443-450. | 3.4 | 49 |

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|-----|--|-----|-----------|
| 109 | A Statistical Shape-Constrained Reconstruction Framework for Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2019, 38, 2400-2410. | 5.4 | 49 |
| 110 | Simultaneously Engineering the Coordination Environment and Pore Architecture of Metal-Organic Framework-Derived Single-Atomic Iron Catalysts for Ultraefficient Oxygen Reduction. Small, 2021, 17, e2102425. | 5.2 | 49 |
| 111 | Optically Active Particles of Chiral Polymers. Macromolecular Rapid Communications, 2013, 34, 1426-1445. | 2.0 | 48 |
| 112 | Effects of an electrospun fluorinated poly(ether ether ketone) separator on the enhanced safety and electrochemical properties of lithium ion batteries. Electrochimica Acta, 2018, 290, 150-164. | 2.6 | 48 |
| 113 | Detection of aggressive behaviours in pigs using a RealSense depth sensor. Computers and Electronics in Agriculture, 2019, 166, 105003. | 3.7 | 48 |
| 114 | E2I: Generative Inpainting From Edge to Image. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1308-1322. | 5.6 | 48 |
| 115 | Effects of alkali and alkaline earth metal species on the combustion characteristics of single particles from pine sawdust and bituminous coal. Bioresource Technology, 2018, 268, 278-285. | 4.8 | 47 |
| 116 | Effects of water addition on soot properties in ethylene inverse diffusion flames. Fuel, 2019, 247, 187-197. | 3.4 | 47 |
| 117 | N, P, and S tri-doped holey carbon as an efficient electrocatalyst for oxygen reduction in whole pH range for fuel cell and zinc-air batteries. Carbon, 2021, 179, 365-376. | 5.4 | 47 |
| 118 | 3D interconnected g-C ₃ N ₄ hybridized with 2D Ti ₃ C ₂ MXene nanosheets for enhancing visible light photocatalytic hydrogen evolution and dye contaminant elimination. Applied Surface Science, 2022, 579, 152180. | 3.1 | 47 |
| 119 | A novel fuzzy classification entropy approach to image thresholding. Pattern Recognition Letters, 2006, 27, 1968-1975. | 2.6 | 46 |
| 120 | yap is required for the development of brain, eyes, and neural crest in zebrafish. Biochemical and Biophysical Research Communications, 2009, 384, 114-119. | 1.0 | 46 |
| 121 | Improvement in the mechanical properties, proton conductivity, and methanol resistance of highly branched sulfonated poly(arylene ether)/graphene oxide grafted with flexible alkylsulfonated side chains nanocomposite membranes. Journal of Power Sources, 2018, 378, 451-459. | 4.0 | 46 |
| 122 | A Three-Dimensional Culture System with Matrigel Promotes Purified Spiral Ganglion Neuron Survival and Function In Vitro. Molecular Neurobiology, 2018, 55, 2070-2084. | 1.9 | 46 |
| 123 | Convolutional Neural Network-Based Block Up-Sampling for HEVC. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3701-3715. | 5.6 | 46 |
| 124 | A convolutional neural network approach for half-pel interpolation in video coding., 2017, , . | | 45 |
| 125 | Efficient inverse radiation analysis of temperature distribution in participating medium based on backward Monte Carlo method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2171-2181. | 1.1 | 44 |
| 126 | Simultaneous measurements of two-dimensional temperature and particle concentration distribution from the image of the pulverized-coal flame. Fuel, 2010, 89, 202-211. | 3.4 | 44 |

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|-----|--|------|-----------|
| 127 | Nonmuscle myosin II-B (myh10) expression analysis during zebrafish embryonic development. <i>Gene Expression Patterns</i> , 2013, 13, 265-270. | 0.3 | 44 |
| 128 | Detailed influences of chemical effects of hydrogen as fuel additive on methane flame. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3777-3788. | 3.8 | 44 |
| 129 | Effects of branching structures on the properties of phosphoric acid-doped polybenzimidazole as a membrane material for high-temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16694-16703. | 3.8 | 44 |
| 130 | A Moving Morphable Components Based Shape Reconstruction Framework for Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2937-2948. | 5.4 | 44 |
| 131 | Kinetic analysis of the chemical effects of hydrogen addition on dimethyl ether flames. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13014-13019. | 3.8 | 43 |
| 132 | Circuits and Systems Issues in Power Electronics Penetrated Power Grid. <i>IEEE Open Journal of Circuits and Systems</i> , 2020, 1, 140-156. | 1.4 | 43 |
| 133 | Estimation of conductivity changes in a region of interest with electrical impedance tomography. <i>Inverse Problems and Imaging</i> , 2015, 9, 211-229. | 0.6 | 43 |
| 134 | Defect Engineering in Photocatalytic Methane Conversion. <i>Small Structures</i> , 2022, 3, 2100147. | 6.9 | 43 |
| 135 | Textile-based moisture power generator with dual asymmetric structure and high flexibility for wearable applications. <i>Nano Energy</i> , 2022, 95, 107017. | 8.2 | 43 |
| 136 | Peroxymonosulfate activation by Co ₃ O ₄ /SnO ₂ for efficient degradation of ofloxacin under visible light. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 650-662. | 5.0 | 43 |
| 137 | Geometrically Deformed Iron-Based Single-Atom Catalysts for High-Performance Acidic Proton Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2022, 12, 5397-5406. | 5.5 | 43 |
| 138 | Insm1a Regulates Motor Neuron Development in Zebrafish. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 274. | 1.4 | 42 |
| 139 | iWave: CNN-Based Wavelet-Like Transform for Image Compression. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 1667-1679. | 5.2 | 42 |
| 140 | Self-Healing Solid Polymer Electrolyte with High Ion Conductivity and Super Stretchability for All-Solid Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36320-36329. | 4.0 | 42 |
| 141 | Site-density engineering of single-atomic iron catalysts for high-performance proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120860. | 10.8 | 42 |
| 142 | Inpainting with image patches for compression. <i>Journal of Visual Communication and Image Representation</i> , 2012, 23, 100-113. | 1.7 | 41 |
| 143 | A Parametric Level set Method for Imaging Multiphase Conductivity Using Electrical Impedance Tomography. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 552-561. | 2.6 | 41 |
| 144 | B-Spline-Based Sharp Feature Preserving Shape Reconstruction Approach for Electrical Impedance Tomography. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2533-2544. | 5.4 | 41 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | The <i>slc4a2b</i> gene is required for hair cell development in zebrafish. <i>Aging</i> , 2020, 12, 18804-18821. | 1.4 | 41 |
| 146 | Real time diagnosis of transient pulse laser with high repetition by radial shearing interferometer. <i>Applied Optics</i> , 2007, 46, 8305. | 2.1 | 40 |
| 147 | Birth Cohort and Age Changes in the Self-Esteem of Chinese Adolescents: A Cross-Temporal Meta-Analysis, 1996-2009. <i>Journal of Research on Adolescence</i> , 2015, 25, 366-376. | 1.9 | 40 |
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