Jie Cao

List of Publications by Year in descending order

49 papers	783 citations	567281 15 h-index	552781 26 g-index
51 all docs	51 docs citations	51 times ranked	1078 citing authors

#	Article	IF	Citations
1	Synthesis of monodispersed CMC-stabilized Feâ€“Cu bimetal nanoparticles for in situ reductive dechlorination of 1, 2, 4-trichlorobenzene. Science of the Total Environment, 2011, 409, 2336-2341.	8.0	79
2	One-step preparation of fluorescent inorganicâ€“organic hybrid material used for explosive sensing. Polymer Chemistry, 2011, 2, 1124-1128.	3.9	67
3	DeepGhost: real-time computational ghost imaging via deep learning. Scientific Reports, 2020, 10, 11400.	3.3	64
4	Tetraphenylethyleneâ€based Glycoconjugate as a Fluorescence â€œTurnâ€Onâ€•Sensor for Cholera Toxin. Chemistry - an Asian Journal, 2011, 6, 2376-2381.	3.3	59
5	Ln₁₂â€Containing 60â€Tungstogermanates: Synthesis, Structure, Luminescence, and Magnetic Studies. Chemistry - A European Journal, 2015, 21, 18168-18176.	3.3	46
6	Atmospheric Pressure of CO₂ as Protecting Reagent and Reactant: Efficient Synthesis of Oxazolidinâ€2â€one with Carbamate Salts, Aldehydes and Alkynes. Advanced Synthesis and Catalysis, 2016, 358, 90-97.	4.3	42
7	Solid-phase microextractionâ€“gas chromatographicâ€“mass spectrometric analysis of volatile compounds from Curcuma wenyujin Y.H. Chen et C. Ling. Journal of Pharmaceutical and Biomedical Analysis, 2006, 40, 552-558.	2.8	28
8	Controlled Synthesis of Polyoxopalladates, and Their Gasâ€Phase Fragmentation Study by Electrospray Ionization Tandem Mass Spectrometry. European Journal of Inorganic Chemistry, 2013, 2013, 3458-3463.	2.0	28
9	Intriguing Role of a Quaternary Ammonium Cation in the Dissociation Chemistry of Keggin Polyoxometalate Anions. Journal of the American Society for Mass Spectrometry, 2012, 23, 366-374.	2.8	24
10	Platinumâ€Containing Polyoxometalates: synâ€ and antiâ€â€[Pt^{II}₂(Î±â€PW₁₁O₃₉)₂]^{10â^'} and Formation of the Metalâ€“Metalâ€Bonded diâ€Pt^{III} Derivatives. Chemistry - A European Journal, 2016, 22, 5514-5519.	3.3	21
11	Probing the Self-Assembly Mechanism of Lanthanide-Containing Sandwich-Type Silicotungstates [{Ln(H₂O)_n}₂{Mn₄(B-Î±-SiW₉O₃₄)₂ Using Time-Resolved Mass Spectrometry and X-ray Crystallography. Inorganic Chemistry, 2016, 55, 2900-2908.	4.0	19
12	Development of pulsedâ€laser threeâ€dimensional imaging flash lidar using <scp>APD</scp> arrays. Microwave and Optical Technology Letters, 2021, 63, 2492-2509.	1.4	17
13	Super-resolution imaging and field of view extension using a single camera with Risley prisms. Review of Scientific Instruments, 2019, 90, 033701.	1.3	16
14	A Hybrid Bionic Image Sensor Achieving FOV Extension and Foveated Imaging. Sensors, 2018, 18, 1042.	3.8	15
15	Nitrogen-Activated Oxidation in Nitrogen Direct Analysis in Real Time Mass Spectrometry (DART-MS) and Rapid Detection of Explosives Using Thermal Desorption DART-MS. Journal of the American Society for Mass Spectrometry, 2019, 30, 2092-2100.	2.8	15
16	Optical zoom imaging systems using adaptive liquid lenses. Bioinspiration and Biomimetics, 2021, 16, 041002.	2.9	15
17	A Novel De-Noising Method for Improving the Performance of Full-Waveform LiDAR Using Differential Optical Path. Remote Sensing, 2017, 9, 1109.	4.0	14
18	Improving the Performance of Image Fusion Based on Visual Saliency Weight Map Combined With CNN. IEEE Access, 2020, 8, 59976-59986.	4.2	14

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19	Selective Production of Electrostatically-Bound Adducts of Alkyl Cations/Polyoxoanions by the Collision-Induced Fragmentations of Their Quaternary Ammonium Counterparts. Journal of the American Society for Mass Spectrometry, 2013, 24, 884-894.	2.8	13
20	Peptide-Based Electrochemical Biosensors and Their Applications in Disease Detection. Journal of Analysis and Testing, 2022, 6, 193-203.	5.1	13
21	Complex solution chemistry behind the simple â€œoneâ€potâ€•synthesis of vanadiumâ€substituted polyoxometalates unraveled by electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 14-19.	1.5	12
22	A novel inorganic-organic hybrid complex between polyoxometalate and cyclodextrin: Synthesis, structure and catalytic activity. International Journal of Mass Spectrometry, 2019, 435, 163-167.	1.5	12
23	What can electrospray mass spectrometry of paratungstates in an equilibrating mixture tell us?. RSC Advances, 2015, 5, 83377-83382.	3.6	11
24	3D Coordination Polymer of [HW₇O₂₄]^{5â€“} Stabilized by a Copper(II) Complex and Sodium Cations: Structure, Solidâ€State Stability, and Aqueous Solution Behavior. European Journal of Inorganic Chemistry, 2013, 2013, 1788-1792.	2.0	9
25	Synthesis, Structure, and Antibacterial Activity of a Thallium(III)-Containing Polyoxometalate, [Tl₂{B-Î²-SiW₈O₃₀(OH)}₂]^{12â€“}. Inorganic Chemistry, 2016, 55, 10118-10121.	4.0	9
26	Modeling and Simulations of Retina-Like Three-Dimensional Computational Ghost Imaging. IEEE Photonics Journal, 2019, 11, 1-13.	2.0	9
27	Retina-like Imaging and Its Applications: A Brief Review. Applied Sciences (Switzerland), 2021, 11, 7058.	2.5	9
28	Characterization of polyoxometalates by electrospray ionization mass spectrometry. Science China Chemistry, 2015, 58, 1206-1210.	8.2	8
29	A Novel Approach of Parallel Retina-Like Computational Ghost Imaging. Sensors, 2020, 20, 7093.	3.8	8
30	Facile and efficient preparation of organoimido derivatives of [Mo₆O₁₉]^{2â^’} using accelerated reactions in Leidenfrost droplets. Analyst, The, 2020, 145, 4844-4851.	3.5	8
31	A novel catalytic application of heteropolyacids: chemical transformation of major ginsenosides into rare ginsenosides exemplified by Rg1. Science China Chemistry, 2017, 60, 748-753.	8.2	7
32	Investigation into the mechanism of polyoxotungstates-catalyzed cyclooctene epoxidation by ESI-MS. RSC Advances, 2016, 6, 56656-56660.	3.6	6
33	Infrared and visible image fusion via octave Gaussian pyramid framework. Scientific Reports, 2021, 11, 1235.	3.3	6
34	Study on Rotation and Scaling Invariance of Retina-Like Imaging. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	5
35	Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. IEEE Photonics Journal, 2020, 12, 1-13.	2.0	5
36	Cation-Anion Interactions and Synergistic Catalysis by Supramolecular Polyoxometalate Complexes [C₁₀H₁₈N]_n[XM₁₂O₄₀]. ChemistrySelect, 2016, 1, 1268-1272.	1.5	4

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37	Ultrathin Tunable Lens Based on Boundary Tension Effect. Sensors, 2019, 19, 4018.	3.8	4
38	Three-Dimensional Laser Imaging with a Variable Scanning Spot and Scanning Trajectory. Photonics, 2021, 8, 173.	2.0	4
39	LPNet: Retina Inspired Neural Network for Object Detection and Recognition. Electronics (Switzerland), 2021, 10, 2883.	3.1	4
40	Fourier Single-Pixel Imaging Based on Lateral Inhibition for Low-Contrast Scenes. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	3
41	Combining Non-Uniform Time Slice and Finite Difference to Improve 3D Ghost Imaging. Sensors, 2019, 19, 418.	3.8	3
42	Underwater Image Restoration Based on Adaptive Color Compensation and Dual Transmission Estimation. IEEE Access, 2020, 8, 207834-207843.	4.2	3
43	Effect of vanadium valence state on the solution chemistry and the stability of vanadium substituted polyoxometalates. RSC Advances, 2016, 6, 110922-110927.	3.6	2
44	Gas-Phase Chemistry of Arylimido-Functionalized Hexamolybdates [Mo6O19]2â^'. Journal of the American Society for Mass Spectrometry, 2018, 29, 1331-1334.	2.8	2
45	Infrared and Visible Image Fusion via L0 Decomposition and Intensity Mask. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	2
46	LBP-Based Edge Detection Method for Depth Images With Low Resolutions. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	1
47	Retina-like Computational Ghost Imaging for an Axially Moving Target. Sensors, 2022, 22, 4290.	3.8	1
48	Object Imaging and Point-spread-function Retrieving through Scattering Media via Bispectrum Analysis Combined Phase-diversity. , 2019, , .		0
49	Single Haze Image Restoration Under Non-Uniform Dense Scattering Media. IEEE Signal Processing Letters, 2021, 28, 1625-1629.	3.6	0