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	Peptide-Based Electrochemical Biosensors and Their Applications in Disease Detection. Journal of Analysis and Testing, 2022, 6, 193-203.	5.1	13
2	Retina-like Computational Ghost Imaging for an Axially Moving Target. Sensors, 2022, 22, 4290.	3.8	1
3	Single Haze Image Restoration Under Non-Uniform Dense Scattering Media. IEEE Signal Processing Letters, 2021, 28, 1625-1629.	3.6	0
4	Infrared and visible image fusion via octave Gaussian pyramid framework. Scientific Reports, 2021, 11, 1235.	3.3	6
5	Three-Dimensional Laser Imaging with a Variable Scanning Spot and Scanning Trajectory. Photonics, 2021, 8, 173.	2.0	4
6	Optical zoom imaging systems using adaptive liquid lenses. Bioinspiration and Biomimetics, 2021, 16, 041002.	2.9	15
7	Retina-like Imaging and Its Applications: A Brief Review. Applied Sciences (Switzerland), 2021, 11, 7058.	2.5	9
8	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
9	LPNet: Retina Inspired Neural Network for Object Detection and Recognition. Electronics (Switzerland), 2021, 10, 2883.	3.1	4
10	DeepGhost: real-time computational ghost imaging via deep learning. Scientific Reports, 2020, 10, 11400.	3.3	64
11	Study on Rotation and Scaling Invariance of Retina-Like Imaging. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	5
12	Underwater Image Restoration Based on Adaptive Color Compensation and Dual Transmission Estimation. IEEE Access, 2020, 8, 207834-207843.	4.2	3
13	A Novel Approach of Parallel Retina-Like Computational Ghost Imaging. Sensors, 2020, 20, 7093.	3.8	8
14	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
15	Improving the Performance of Image Fusion Based on Visual Saliency Weight Map Combined With CNN. IEEE Access, 2020, 8, 59976-59986.	4.2	14
16	Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. IEEE Photonics Journal, 2020, 12, 1-13.	2.0	5
17	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
18	Ultrathin Tunable Lens Based on Boundary Tension Effect. Sensors, 2019, 19, 4018.	3.8	4

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19	Fourier Single-Pixel Imaging Based on Lateral Inhibition for Low-Contrast Scenes. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	3
20	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
21	Combining Non-Uniform Time Slice and Finite Difference to Improve 3D Ghost Imaging. Sensors, 2019, 19, 418.	3.8	3
22	Modeling and Simulations of Retina-Like Three-Dimensional Computational Ghost Imaging. IEEE Photonics Journal, 2019, 11, 1-13.	2.0	9
23	Object Imaging and Point-spread-function Retrieving through Scattering Media via Bispectrum Analysis Combined Phase-diversity. , 2019, , .		0
24	Infrared and Visible Image Fusion via L0 Decomposition and Intensity Mask. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	2
25	LBP-Based Edge Detection Method for Depth Images With Low Resolutions. IEEE Photonics Journal, 2019, 11, 1-11.	2.0	1
26	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
27	A Hybrid Bionic Image Sensor Achieving FOV Extension and Foveated Imaging. Sensors, 2018, 18, 1042.	3.8	15
28	Gas-Phase Chemistry of Arylimido-Functionalized Hexamolybdates [Mo6O19]2â^'. Journal of the American Society for Mass Spectrometry, 2018, 29, 1331-1334.	2.8	2
29	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
30	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
31	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
32	Cation-Anion Interactions and Synergistic Catalysis by Supramolecular Polyoxometalate Complexes [C₁₀H₁₈N]_n[XM₁₂O₄₀]. ChemistrySelect, 2016, 1, 1268-1272.	1.5	4
33	Atmospheric Pressure of CO₂ as Protecting Reagent and Reactant: Efficient Synthesis of Oxazolidinâ€2â€ones with Carbamate Salts, Aldehydes and Alkynes. Advanced Synthesis and Catalysis, 2016, 358, 90-97.	4.3	42
34	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
35	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
36	Platinumâ€Containing Polyoxometalates: synâ€ and antiâ€[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

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37	Investigation into the mechanism of polyoxotungstates-catalyzed cyclooctene epoxidation by ESI-MS. RSC Advances, 2016, 6, 56656-56660.	3.6	6
38	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.	4.6	19
39	Ln₁₂â€Containing 60â€Tungstogermanates: Synthesis, Structure, Luminescence, and Magnetic Studies. Chemistry - A European Journal, 2015, 21, 18168-18176.	3.3	46
40	Characterization of polyoxometalates by electrospray ionization mass spectrometry. Science China Chemistry, 2015, 58, 1206-1210.	8.2	8
41	What can electrospray mass spectrometry of paratungstates in an equilibrating mixture tell us?. RSC Advances, 2015, 5, 83377-83382.	3.6	11
42	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
43	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
44	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
45	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
46	One-step preparation of fluorescent inorganicâ€“organic hybrid material used for explosive sensing. Polymer Chemistry, 2011, 2, 1124-1128.	3.9	67
47	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
48	Tetraphenylethyleneâ€based Glycoconjugate as a Fluorescence â€œTurnâ€Onâ€•Sensor for Cholera Toxin. Chemistry - an Asian Journal, 2011, 6, 2376-2381.	3.3	59
49	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