Shi-Bo Cheng

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Detection of exosomes by ZnO nanowires coated three-dimensional scaffold chip device. Biosensors and Bioelectronics, 2018, 122, 211-216.	10.1	104
2	Flexible Electrochemical Urea Sensor Based on Surface Molecularly Imprinted Nanotubes for Detection of Human Sweat. Analytical Chemistry, 2018, 90, 13081-13087.	6.5	104
3	Three-Dimensional Scaffold Chip with Thermosensitive Coating for Capture and Reversible Release of Individual and Cluster of Circulating Tumor Cells. Analytical Chemistry, 2017, 89, 7924-7932.	6.5	68
4	Construction of Highly Efficient Resonance Energy Transfer Platform Inside a Nanosphere for Ultrasensitive Electrochemiluminescence Detection. Analytical Chemistry, 2018, 90, 5075-5081.	6.5	67
5	High-Efficiency Capture of Individual and Cluster of Circulating Tumor Cells by a Microchip Embedded with Three-Dimensional Poly(dimethylsiloxane) Scaffold. Analytical Chemistry, 2016, 88, 6773-6780.	6.5	59
6	Engineered Decomposable Multifunctional Nanobioprobes for Capture and Release of Rare Cancer Cells. Analytical Chemistry, 2014, 86, 4618-4626.	6.5	55
7	Degradable Zinc-Phosphate-Based Hierarchical Nanosubstrates for Capture and Release of Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2016, 8, 15917-15925.	8.0	53
8	Advances in Analytical Technologies for Extracellular Vesicles. Analytical Chemistry, 2021, 93, 4739-4774.	6.5	53
9	Construction of a flexible electrochemiluminescence platform for sweat detection. Chemical Science, 2019, 10, 6295-6303.	7.4	49
10	Observation of d–p hybridized aromaticity in lanthanum-doped boron clusters. Physical Chemistry Chemical Physics, 2014, 16, 533-539.	2.8	46
11	Label-free silicon nanodots featured ratiometric fluorescent aptasensor for lysosomal imaging and pH measurement. Biosensors and Bioelectronics, 2017, 94, 478-484.	10.1	43
12	Rational design of an efficient descriptor for single-atom catalysts in the hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 9202-9208.	10.3	41
13	Advances in microfluidic extracellular vesicle analysis for cancer diagnostics. Lab on A Chip, 2021, 21, 3219-3243.	6.0	39
14	Mimicking the magnetic properties of rare earth elements using superatoms. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4941-4945.	7.1	33
15	Ag@WS2 quantum dots for Surface Enhanced Raman Spectroscopy: Enhanced charge transfer induced highly sensitive detection of thiram from honey and beverages. Food Chemistry, 2021, 344, 128570.	8.2	25
16	OH produced from o-nitrophenol photolysis: A combined experimental and theoretical investigation. Journal of Chemical Physics, 2009, 130, 234311.	3.0	24
17	Tuning the Electronic Properties and Performance of Low-Temperature CO Oxidation of the Gold Cluster by Oriented External Electronic Field. Journal of Physical Chemistry Letters, 2020, 11, 1093-1099.	4.6	23
18	A Three-Dimensional Conductive Scaffold Microchip for Effective Capture and Recovery of Circulating Tumor Cells with High Purity. Analytical Chemistry, 2021, 93, 7102-7109.	6.5	23

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19	S-P Coupling Induced Unusual Open-Shell Metal Clusters. Journal of the American Chemical Society, 2014, 136, 4821-4824.	13.7	22
20	Current techniques and future advance of microfluidic devices for circulating tumor cells. TrAC - Trends in Analytical Chemistry, 2019, 117, 116-127.	11.4	21
21	Polymeric tungsten carbide nanoclusters: structural evolution, ligand modulation, and assembled nanomaterials. Nanoscale, 2019, 11, 19903-19911.	5.6	20
22	Adsorption energy as a promising single-parameter descriptor for single atom catalysis in the oxygen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 6442-6450.	10.3	18
23	Unveiling the electronic structures and ligation effect of the superatom–polymeric zirconium oxide clusters: a computational study. Physical Chemistry Chemical Physics, 2019, 21, 14865-14872.	2.8	17
24	Direct experimental observation of weakly-bound character of the attached electron in europium anion. Scientific Reports, 2015, 5, 12414.	3.3	16
25	Modulating N H-based excited-state intramolecular proton transfer by different electron-donating/withdrawing substituents in 2-(2′-aminophenyl)benzothiazole compounds. Chemical Physics Letters, 2019, 724, 57-66.	2.6	16
26	Filling Mesopores of Conductive Metal–Organic Frameworks with Cu Clusters for Selective Nitrate Reduction to Ammonia. ACS Applied Materials & Interfaces, 2022, 14, 32176-32182.	8.0	16
27	Theoretical investigations on the d-p hybridized aromaticity, photoelectron spectroscopy and neutral salts of the LaX2â²' (X=Al, Ga, In) clusters. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 203, 132-138.	3.9	15
28	Fluorescence and solvent-dependent phosphorescence studies of o-nitrobenzaldehyde: A combined experimental and theoretical investigation. Physical Chemistry Chemical Physics, 2010, 12, 9067.	2.8	14
29	Molecular designing of naphthalene diimide based fullerene-free small organic solar cell - Acceptors with high photovoltaic performance by density functional theory. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117685.	3.9	14
30	General Dual-Switched Dynamic Singlet Fission Channels in Solvents Governed Jointly by Chromophore Structural Dynamics and Solvent Impact: Singlet Prefission Energetics Analyses. Journal of the American Chemical Society, 2020, 142, 17469-17479.	13.7	14
31	OH Fragment from Benzoic Acid Monomer Photolysis: Threshold and Product State Distribution. Journal of Physical Chemistry A, 2008, 112, 4727-4731.	2.5	13
32	Photolysis of <i>o</i> â€Nitrobenzaldehyde in the Gas Phase: A New OH [.] Formation Channel. ChemPhysChem, 2009, 10, 1135-1142.	2.1	13
33	Electronic structure of the diatomic VO anion: A combined photoelectron-imaging spectroscopic and theoretical investigation. Physical Review A, 2016, 94, .	2.5	13
34	Flexible Three-Dimensional Net for Intravascular Fishing of Circulating Tumor Cells. Analytical Chemistry, 2020, 92, 5447-5455.	6.5	13
35	Dynamics of OH Formation in the Photodissociation of <i>o</i> -Nitrobenzoic Acid at 295 and 355 nm. Journal of Physical Chemistry A, 2009, 113, 4923-4929.	2.5	12
36	Designing difluoro substituted benzene ring based fullerene free acceptors for small Naphthalene Di-Imide based molecules with DFT approaches. Optical and Quantum Electronics, 2019, 51, 1.	3.3	12

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37	Modulating mechanism of N H-based excited-state intramolecular proton transfer by electron-withdrawing substituent at aromatic para-position. Chemical Physics Letters, 2019, 730, 76-83.	2.6	12
38	Caramelized carbonaceous shell-coated γ-Fe2O3 as a magnetic solid-phase extraction sorbent for LC-MS/MS analysis of triphenylmethane dyes. Mikrochimica Acta, 2020, 187, 371.	5.0	12
39	Surface Modification Strategy for Promoting the Performance of Non-noble Metal Single-Atom Catalysts in Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 19457-19466.	8.0	12
40	Probing the Electronic Structures and Relative Stabilities of Monomagnesium Oxide Clusters MgOx– and MgOx (x = 1–4): A Combined Photoelectron Imaging and Theoretical Investigation. Journal of Physical Chemistry A, 2013, 117, 11896-11905.	2.5	11
41	Probing the Geometric and Electronic Structures of the Monogadolinium Oxide GdO _{<i>n</i>} ^{–1/0} (<i>n</i> = 1–4) Clusters. Journal of Physical Chemistry A, 2018, 122, 8776-8782.	2.5	11
42	Organic ligand mediated evolution from aluminum-based superalkalis to superatomic molecules and one-dimensional nanowires. Nano Research, 2022, 15, 1162-1170.	10.4	11
43	Unusual Indirect Nuclear Spin–Spin Exchange Coupling through Solvated Electron. Journal of Physical Chemistry Letters, 2018, 9, 689-695.	4.6	10
44	Revealing the effect of the oriented external electronic field on the superatom-polymeric Zr3O3 cluster: Superhalogen modulation and spectroscopic characteristics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 237, 118400.	3.9	10
45	Dynamic SPME–SERS Induced by Electric Field: Toward In Situ Monitoring of Pharmaceuticals and Personal Care Products. Analytical Chemistry, 2022, 94, 9270-9277.	6.5	9
46	Photodissociation dynamics of n-butyl nitrite at 266nm: Internal state distributions of nascent NO fragments. Chemical Physics Letters, 2008, 452, 14-19.	2.6	8
47	Joint Photoelectron Imaging Spectroscopic and Theoretical Characterization on the Electronic Structures of the Anionic and Neutral ZrC2 Clusters. Journal of Physical Chemistry A, 2014, 118, 6935-6939.	2.5	8
48	Photoinduced excited state dynamical behavior and ESIPT mechanism for 2-(2-hydroxy-3,5-dimethyl-phenyl)-benzooxazole-5-carboxylicacid molecule. Chemical Physics Letters, 2019, 730, 485-490.	2.6	7
49	Assigning the mass spectrum of NbNâ^': Photoelectron imaging spectroscopy and nominal-mass counterpart analysis. International Journal of Mass Spectrometry, 2014, 365-366, 222-224.	1.5	6
50	On the theoretical construction of Nb2N2-based superatoms by external field strategies. Chemical Physics Letters, 2020, 754, 137709.	2.6	6
51	Theoretical study of charge-transport and optical properties of organic crystals: 4,5,9,10-pyrenediimides. IUCrJ, 2019, 6, 603-609.	2.2	6
52	Theoretical study of charge-transport and optical properties of indeno[1,2- <i>b</i>]fluorene-6,12-dione-based semiconducting materials. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 705-711.	1.1	5
53	A theoretical investigation on the excited state intramolecular single or double proton transfer mechanism of a salicyladazine system. Journal of the Chinese Chemical Society, 2019, 66, 1416-1421.	1.4	5
54	Ladder Oxygenation of Group VIII Metal Clusters and the Formation of Metalloxocubes M ₁₃ O ₈ ⁺ . Journal of Physical Chemistry Letters, 2022, 13, 733-739.	4.6	5

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55	Theoretical study of the conformers of n-butyl nitrite and their dissociation pathways leading to OH formation. Chemical Physics Letters, 2009, 481, 39-45.	2.6	4
56	Magnetic Dioxygen Clathrate Hydrates: A Type of Promising Building Blocks for Icy Crystalline Materials. Journal of Physical Chemistry C, 2020, 124, 10669-10678.	3.1	4
57	A sandwich-like Ga ₂ FeS ₄ -supported single metal atom as a promising bifunctional electrocatalyst for overall water splitting. Journal of Materials Chemistry A, 2021, 9, 18594-18603.	10.3	4
58	Ligand-field regulated superalkali behavior of the aluminum-based clusters with distinct shell occupancy. Chinese Chemical Letters, 2022, 33, 5147-5151.	9.0	4
59	Dual External Field-Engineered Hyperhalogen. Journal of Physical Chemistry Letters, 2022, 13, 3942-3948.	4.6	4
60	Photodissociation dynamics of benzenesulfonic acid at 266nm: OH detection by laser-induced fluorescence. Chemical Physics Letters, 2008, 466, 27-31.	2.6	3
61	A detailed theoretical simulation about the excited state dynamical process for the novel (benzo[d]thiazolâ€2â€yl)â€5â€(9Hâ€carbazolâ€9â€yl)phenol molecule. Journal of Physical Organic Chemistry, 2 32, e3942.	01199	3
62	A density functional theory calculation on the geometrical structures and electronic properties of Ag19 under the oriented external electric field. Chemical Physics Letters, 2020, 754, 137703.	2.6	3
63	High Efficient Isolation of Tumor Cells by a Three Dimensional Scaffold Chip for Diagnosis of Malignant Effusions. ACS Applied Bio Materials, 2020, 3, 2177-2184.	4.6	3
64	Fluorescence enhancement mechanism of thymolphthalein-based probe by coordination interaction with zinc ion. Journal of Molecular Liquids, 2021, 339, 116275.	4.9	3
65	On the Precise and Continuous Regulation of the Superatomic and Spectroscopic Behaviors of the Quasi-Cubic W ₄ C ₄ Cluster by the Oriented External Electric Field. Journal of Physical Chemistry A, 2022, 126, 29-35.	2.5	3
66	Formation of Hydroxyl Radical from the Photolysis of Salicylic Acid. Journal of Physical Chemistry A, 2011, 115, 5062-5068.	2.5	2
67	Photoelectron imaging spectroscopy of niobium mononitride anion NbNâ^'. Journal of Chemical Physics, 2016, 145, 034301.	3.0	2
68	On the structures, electronic properties, and superhalogen regulation of the MnB6â^' cluster: A density functional theory investigation. Chemical Physics Letters, 2020, 754, 137723.	2.6	2
69	Observation of "Outlaw―Dual Aromaticity in Unexpectedly Stable Open-Shell Metal Clusters Caused by Near-Degenerate Molecular Orbital Coupling. CCS Chemistry, 2021, 3, 1913-1920.	7.8	2
70	Detection of OH Radical in the Photodissociation of <i>p</i> -Aminobenzoic Acid at 266 nm. Chinese Journal of Chemical Physics, 2009, 22, 681-685.	1.3	1
71	Unique Solvating Effect in Azabenzene Clathrate Hydrates. Journal of Physical Chemistry C, 2018, 122, 28466-28477.	3.1	1
72	On the dual aromaticity and external field induced superhalogen modulation of the AuSc2 cluster: A computational study. Chemical Physics Letters, 2020, 754, 137767.	2.6	0