Zhong-Jun Zhou

List of Publications by Year
in descending order

30 papers	686 citations	687363 13 h-index	677142 22 g-index
30 all docs	30 docs citations	30 times ranked	416 citing authors

#	Article	IF	Citations
1	The interaction between superalkalis (M3O, M = Na, K) and a C20F20 cage forming superalkali electride salt molecules with excess electrons inside the C20F20 cage: dramatic superalkali effect on the nonlinear optical property. Journal of Materials Chemistry, 2012, 22, 9652.	6.7	97
2	Modulated Nonlinear Optical Responses and Charge Transfer Transition in Endohedral Fullerene Dimers Na@C₆₀C₆₀@F with n-Fold Covalent Bond (n = 1, 2, 5, and) Tj ETQq1 0 0 rgBT /Overloc	3.1	87
3	New Acceptorâ€“Bridgeâ€“Donor Strategy for Enhancing NLO Response with Long-Range Excess Electron Transfer from the NH₂...M/M₃O Donor (M = Li, Na, K) to Inside the Electron Hole Cage C₂₀F₁₉ Acceptor through the Unusual ïƒ Chain Bridge (CH₂)₄. Journal of Physical Chemistry A, 2013, 117, 2835-2843.	2.5	78
4	Pushâ€“pull electron effects of the complexant in a Li atom doped molecule with electride character: a new strategy to enhance the first hyperpolarizability. Physical Chemistry Chemical Physics, 2010, 12, 10562.	2.8	66
5	Exceptionally Large Secondâ€Order Nonlinear Optical Response in Donorâ€“Graphene Nanoribbonâ€“Acceptor Systems. Chemistry - A European Journal, 2011, 17, 2414-2419.	3.3	59
6	Efficient External Electric Field Manipulated Nonlinear Optical Switches of All-Metal Electride Molecules with Infrared Transparency: Nonbonding Electron Transfer Forms an Excess Electron Lone Pair. Journal of Physical Chemistry C, 2017, 121, 958-968.	3.1	53
7	An External Electric Field Manipulated Second-Order Nonlinear Optical Switch of an Electride Molecule: A Long-Range Electron Transfer Forms a Lone Excess Electron Pair and Quenches Singlet Diradical. Journal of Physical Chemistry C, 2016, 120, 13656-13666.	3.1	50
8	Electric Field-Driven Acidâ€'Base Chemistry: Proton Transfer from Acid (HCl) to Base (NH₃/H₂O). Journal of Physical Chemistry A, 2011, 115, 1418-1422.	2.5	43
9	Theoretical investigation on nonlinear optical properties of carbon nanotubes with Stoneâ€“Wales defect rings. Journal of Materials Chemistry C, 2014, 2, 306-311.	5.5	42
10	The structure and large nonlinear optical properties of a novel octupolar electride Li@36Adz. Computational and Theoretical Chemistry, 2013, 1023, 99-103.	2.5	29
11	What is the role of defects in single-walled carbon nanotubes for nonlinear optical property?. Journal of Materials Chemistry, 2011, 21, 8905.	6.7	16
12	The effects of external electric field: creating non-zero first hyperpolarizability for centrosymmetric benzene and strongly enhancing first hyperpolarizability for non-centrosymmetric edge-modified graphene ribbon H2N-(3,3)ZGNR-NO2. Journal of Molecular Modeling, 2013, 19, 3983-3991.	1.8	14
13	Nonlinear optical response and transparency of hexagonal boron nitride hybrid graphene nanoribbons. Chemical Physics Letters, 2014, 614, 57-61.	2.6	14
14	Effect of substitution and cooperativity on the Clâ€“F blue shift in single-electron halogen-bonded H₃C Â·Â·Â· ClF complex. Molecular Physics, 2010, 108, 2021-2026.	1.7	11
15	Theoretical investigation of boron-doped lithium clusters, BLi_n (n = 3â€“6), activating CO₂: an example of the carboxylation of Câ€“H bonds. RSC Advances, 2016, 6, 84042-84049.	3.6	8
16	Design of Lewis acidâ€“base complex: enhancing the stability and first hyperpolarizability of large excess electron compound. Journal of Molecular Modeling, 2013, 19, 4805-4813.	1.8	7
17	Theoretical study of substituent effects on electride characteristics and the nonlinear optical properties of Li@calix[4]pyrrole. RSC Advances, 2019, 9, 37919-37925.	3.6	5
18	Electrideâ€Sponsored Radicalâ€Controlled CO 2 Reduction to Organic Acids: A Computational Design. Chemistry - A European Journal, 2020, 26, 6234-6239.	3.3	3

#	Article	IF	Citations
19	Theoretical study of a novel organic electride with large nonlinear optical responses. International Journal of Quantum Chemistry, 2020, 120, e26235.	2.0	3
20	Excess-electron-induced Câ€“C bond formation in transformation of carbon dioxide. RSC Advances, 2016, 6, 851-858.	3.6	2
21	Finding allâ€nonmetal transitionâ€metalâ€like superatom and its magnetic building block. International Journal of Quantum Chemistry, 2018, 118, e25570.	2.0	2
22	Generation of singlet oxygen catalyzed by the room-temperature-stable anthraquinone anion radical. Physical Chemistry Chemical Physics, 2022, 24, 14165-14171.	2.8	2
23	Small Janus dimer as electric field manipulated molecular clam switch and electric information storage unit. International Journal of Quantum Chemistry, 2019, 119, e26005.	2.0	1
24	Dearomatization of Benzenoid Arenes Triggered by Triplet Excited State Intramolecular Proton Transfer. Journal of Physical Chemistry A, 2022, 126, 4424-4431.	2.5	1
25	Bonding and correlation analysis of various Si₂CO isomers on the potential energy surface. International Journal of Quantum Chemistry, 2009, 109, 907-919.	2.0	0
26	Theoretical study on the ionâ€“molecule reaction of NH⁺ with CH₂O. International Journal of Quantum Chemistry, 2012, 112, 1654-1666.	2.0	0
27	Theoretical study of the photochemical isomerization process of perfluoroaryltetrahedrane to perfluoroarylcyclobutadiene mediated by 9,10-dicyanoanthracene. Theoretical Chemistry Accounts, 2019, 138, 1.	1.4	0
28	Copper(I) catalyzed CO2 transformation: A density functional theory investigation. Computational and Theoretical Chemistry, 2020, 1175, 112745.	2.5	0
29	Metalloradical complex Coâ€“CË™Ph3 catalyzes the CO2 reduction in gas phase: a theoretical study. Physical Chemistry Chemical Physics, 2021, 23, 1392-1400.	2.8	0
30	Lacking of ESIPT Band of Aromatic ortho-Aminoaldehyde Derivatives Triggered by the N-H Vibration. Physical Chemistry Chemical Physics, 2022, , .	2.8	0