Ying Li

List of Publications by Year
in descending order

56 papers	2,383 citations	279798 23 h-index	197818 49 g-index
56 all docs	56 docs citations	56 times ranked	752 citing authors

#	Article	IF	Citations
1	The Structure and the Large Nonlinear Optical Properties of Li@Calix[4]pyrrole. Journal of the American Chemical Society, 2005, 127, 10977-10981.	13.7	318
2	Structures and Large NLO Responses of New Electrides:â€‰ Li-Doped Fluorocarbon Chain. Journal of the American Chemical Society, 2007, 129, 2967-2970.	13.7	269
3	Compounds of Superatom Clusters: Preferred Structures and Significant Nonlinear Optical Properties of the BLi₆-X (X = F, LiF₂, BeF₃, BF₄) Motifs. Inorganic Chemistry, 2008, 47, 9773-9778.	4.0	154
4	An ab Initio Prediction of the Extraordinary Static First Hyperpolarizability for the Electron-Solvated Cluster (FH)2{e}(HF). Journal of Physical Chemistry B, 2004, 108, 3145-3148.	2.6	134
5	On the Potential Application of Superalkali Clusters in Designing Novel Alkalides with Large Nonlinear Optical Properties. Inorganic Chemistry, 2014, 53, 6170-6178.	4.0	125
6	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
7	Ab Initio Investigation on a New Class of Binuclear Superalkali Cations M₂Li_{2<i>k</i>+1}⁺ (F₂Li₃⁺,) Tj ETQq1 1 0.784314 rgBT /	2.5	92
8	Structural properties and nonlinear optical responses of superatom compounds BF₄â€•M (M) Tj ETQq0 0 0 rgBT /Overlock 1 Chemistry, 2012, 112, 770-778.	2.0	86
9	Theoretical Study on Polynuclear Superalkali Cations with Various Functional Groups as the Central Core. Inorganic Chemistry, 2012, 51, 6081-6088.	4.0	80
10	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
11	Do single-electron lithium bonds exist? Prediction and characterization of the H3Câ‹¯Liâ€“Y (Y=H, F, OH,) Tj ETQq1 1 0.784314 rgBT /Ov	3.0	77
12	Low ionization potentials of binuclear superalkali B2Li11. Journal of Chemical Physics, 2009, 131, 164307.	3.0	72
13	Novel Superalkali Superhalogen Compounds (Li3)+(SH)âˆ’ (SH=LiF2, BeF3, and BF4) with Aromaticity: New Electrides and Alkalides. ChemPhysChem, 2006, 7, 1136-1141.	2.1	65
14	Prediction and characterization of novel polynuclear superalkali cations. Dalton Transactions, 2013, 42, 577-584.	3.3	63
15	Designing Aromatic Superatoms. Journal of Physical Chemistry C, 2013, 117, 24618-24624.	3.1	57
16	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
17	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
18	Structural and electronic properties of boron-doped lithium clusters: Ab initio and DFT studies. Journal of Computational Chemistry, 2007, 28, 1677-1684.	3.3	48

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19	Do nonmetallic superalkali cations exist?. Chemical Physics Letters, 2013, 575, 32-35.	2.6	48
20	A theoretical study on novel alkaline earth-based excess electron compounds: unique alkalides with considerable nonlinear optical responses. Physical Chemistry Chemical Physics, 2015, 17, 4524-4532.	2.8	41
21	Stability and Nonlinear Optical Response of Alkalides that Contain a Completely Encapsulated Superalkali Cluster. ChemPhysChem, 2016, 17, 2672-2678.	2.1	39
22	Unusual Manipulative Effects of Spin Multiplicity and Excess Electron Number on the Structure and Nonlinear Optical Response in New Linear and Cyclic Electride Molecules with Multiexcess Electrons. Journal of Physical Chemistry C, 2014, 118, 23937-23945.	3.1	28
23	Quasi-Chalcogen Characteristics of Al₁₂Be: A New Member of the Three-Dimensional Periodic Table. Journal of Physical Chemistry C, 2016, 120, 2464-2471.	3.1	25
24	All-metal electride molecules CuAg@Ca₇M (M = Be, Mg, and Ca) with multi-excess electrons and all-metal polyanions: molecular structures and bonding modes as well as large infrared nonlinear optical responses. Dalton Transactions, 2016, 45, 2656-2665.	3.3	24
25	Trivalent acid radical-centered YLi₄⁺(Y = PO₄, AsO₄,) Tj ETQq1 1 0.784314 rgBT /O Transactions, 2014, 43, 18066-18073.	3.3	23
26	Insight into structural and Ï€â€“magnesium bonding characteristics of the X₂Mgâ‹¯Y (X = H, F;) Tj ETQq0 0 0 rgBT /Overloc complexes. RSC Advances, 2016, 6, 102754-102761.	3.6	20
27	Theoretical study of substitution effect in superalkali OM3 (M=Li, Na, K). Chemical Physics Letters, 2013, 575, 27-31.	2.6	19
28	Decorating Zintl polyanions with alkali metal cations: A novel strategy to design superatom cations with low electron affinity. Journal of Alloys and Compounds, 2018, 740, 400-405.	5.5	19
29	A new strategy for simultaneously enhancing nonlinear optical response and electron stability in novel cupâ€“saucer⁺â€“cage^{â^’}-shaped sandwich electride molecules with an excess electron protected inside the cage. Dalton Transactions, 2015, 44, 4207-4214.	3.3	18
30	Effects of the Cage Number and Excess Electron Number on the Second Order Nonlinear Optical Response in Molecular All-Metal Electride Multicage Chains. Journal of Physical Chemistry C, 2017, 121, 25531-25540.	3.1	17
31	Nonlinear optical response of endohedral all-metal electride cages 2eâ^’Mg2+(M@E12)2â^’Ca2+ (M = Ni,) Tj ETQq1 1 0.784314 rgBT /O	5.5	16
32	Evolution of the structural and electronic properties of beryllium-doped aluminum clusters: comparison with neutral and cationic aluminum clusters. Physical Chemistry Chemical Physics, 2012, 14, 16467.	2.8	14
33	Can Fluorinated Molecular Cages Be Utilized as Building Blocks of Hyperhalogens?. ChemPhysChem, 2016, 17, 1468-1474.	2.1	12
34	Superhalogen properties of hetero-binuclear anions MMâ€²F4â^’ and MMâ€³F5â^’ (M = Li, Na, Mâ€² = Be, Mg, Ca; Mâ€³ =) Tj ETQq0 0 0	2.6	11
35	The Trigonal Bipyramidal MN3M Species: A New Kind of Aromatic Complex Containing a Multiple-Fold Aromatic N3 Subunit. ChemPhysChem, 2005, 6, 2562-2569.	2.1	9
36	Honeycomb Borophene Fragment Stabilized in Polyanionic Sandwich Lithium Salt: A New Type of Two-Dimensional Material with Superconductivity. Journal of Physical Chemistry C, 2020, 124, 5870-5879.	3.1	9

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37	The Influence of Carbon Doping on the Structures, Properties, and Stability of Beryllium Clusters. European Journal of Inorganic Chemistry, 2017, 2017, 2428-2434.	2.0	8
38	On Close Parallels between the Zintl-Based Superatom Ge₉Be and Chalcogen Elements. Inorganic Chemistry, 2021, 60, 3196-3206.	4.0	8
39	Does Alkaline-Earth-Metal-Based Superalkali Exist?. Journal of Physical Chemistry A, 2016, 120, 10281-10288.	2.5	7
40	On the formation of beryllium bonds where radicals act as electron donors. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	7
41	Distinctive Characteristics of Al₇Li: A Superatom Counterpart of Group IVA Elements. Inorganic Chemistry, 2020, 59, 14093-14100.	4.0	7
42	Unveiling the potential of superalkali cation Li₃⁺for capturing nitrogen. Physical Chemistry Chemical Physics, 2020, 22, 26536-26543.	2.8	6
43	Theoretical investigation of perfect fullerene-like borospherene Ih-B20 protected by alkaline earth metal: multi-layered spherical electride molecules as electric field manipulated second-order nonlinear optical switches. Dalton Transactions, 2020, 49, 15267-15275.	3.3	5
44	The behavior of the aluminum trimer when combining with different superatom clusters. RSC Advances, 2018, 8, 6667-6674.	3.6	4
45	The effect of hydration on the electronic structure and stability of the superalkali cation Li₃⁺. Physical Chemistry Chemical Physics, 2018, 20, 15174-15182.	2.8	4
46	Noble gas insertion compounds of hydrogenated and lithiated hyperhalogens. Physical Chemistry Chemical Physics, 2019, 21, 20156-20165.	2.8	4
47	Probing the effect of carbon doping on structures, properties, and stability of magnesium clusters. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	3
48	Finding allâ€nonmetal transitionâ€metalâ€like superatom and its magnetic building block. International Journal of Quantum Chemistry, 2018, 118, e25570.	2.0	2
49	On structure and hyperhalogen properties of hetero-binuclear superatoms MMâ€²(BO2)âˆ’ (MÂ=ÂNa, mg;) Tj ETQq1 1 0.784314 rgBT	2.2	2
50	High electron affinity triggered by lithium coordination: quasi-chalcogen properties of Li₂Sn₈Be. Physical Chemistry Chemical Physics, 2022, 24, 10611-10621.	2.8	2
51	Comparative study of hydrogenated and lithiated superhalogens. Chemical Physics Letters, 2016, 661, 94-99.	2.6	1
52	On single-electron magnesium bonding formation and the effect of methyl substitution. RSC Advances, 2020, 10, 34413-34420.	3.6	1
53	Effects of the nanowire length on large second-order nonlinear optical responses: a theoretical investigation of the thinnest doped beryllium nanowires with IR and UV working wavebands. Dalton Transactions, 2021, 50, 4613-4622.	3.3	1
54	On reactivity of superatom <scp>Be₈C</scp> with nucleophiles to produce hydrogen. International Journal of Quantum Chemistry, 2021, 121, e26794.	2.0	1

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55	Theoretical Study of Alkaline-Earth Metal (Be, Mg, and Ca)-Substituted Aluminum Nitride Nanocages With High Stability and Large Nonlinear Optical Responses. Frontiers in Chemistry, 0, 10, .	3.6	0
56	Design of a Novel Series of Hetero-Binuclear Superhalogen Anions MMâ€²X4â^’ (M = Li, Na; Mâ€² = Be, Mg, Ca; X) Tj ETQq0 0 0 rgBT /Ov	3.6	0