

Pratim Kumar Chattaraj

List of Publications by Year in descending order

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278
papers

13,245
citations

38742

50
h-index

29157

104
g-index

300
all docs

300
docs citations

300
times ranked

6205
citing authors

#	ARTICLE	IF	CITATIONS
1	Fischer and Schrock carbene complexes in the light of global and local electrophilicity-based descriptors. <i>Journal of Physical Organic Chemistry</i> , 2023, 36, .	1.9	2
2	Variation in electrophilicity on electronic excitation. <i>Journal of Physical Organic Chemistry</i> , 2023, 36, .	1.9	9
3	Electrophilicity index revisited. <i>Journal of Computational Chemistry</i> , 2023, 44, 278-297.	3.3	28
4	Possible C-F bond activation by B(C ₆ F ₅) ₃ /lutidine and Al(C ₆ F ₅) ₃ /lutidine frustrated Lewis pair: an in silico study. <i>Journal of Chemical Sciences</i> , 2022, 134, 1.	1.5	9
5	Stabilisation of Li(0)-Li(0) bond by normal and mesoionic carbenes and electride characteristics of the complexes. <i>Molecular Physics</i> , 2022, 120, .	1.7	4
6	Activation of Small Molecules and Hydrogenation of CO ₂ Catalyzed by Frustrated Lewis Pairs. <i>Catalysts</i> , 2022, 12, 201.	3.5	19
7	$\langle \text{CSiGaAl} \rangle_2$ and $\langle \text{CGeGaAl} \rangle_2$ having planar tetracoordinate carbon atoms in their global minimum energy structures. <i>Journal of Computational Chemistry</i> , 2022, 43, 894-905.	3.3	14
8	$\langle \text{Li} \rangle_4 \text{EPc}$: A metallo-organic electride comprising metal-nitrogen bonds. <i>International Journal of Quantum Chemistry</i> , 2022, 122, .	2.0	2
9	Revisiting the trapping of noble gases (He-Kr) by the triatomic H ₃ ⁺ and Li ₃ ⁺ species: a density functional reactivity theory study. <i>Journal of Molecular Modeling</i> , 2022, 28, 122.	1.8	2
10	Small molecule activation and dehydrogenation of an amine-borane system using frustrated Lewis pairs. <i>Structural Chemistry</i> , 2022, 33, 1853-1865.	2.0	9
11	Controlling Tunneling Oscillation and Quantum Localization in an Asymmetric Double-Well Potential: A Bohmian Perspective. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4834-4847.	2.5	1
12	Can superalkalis and superhalogens improve the efficacy of redox reactions?. <i>Chemical Physics Letters</i> , 2021, 762, 138131.	2.6	2
13	Density functional theory studies of boron clusters with exotic properties in bonding, aromaticity and reactivity. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24118-24124.	2.8	11
14	Conceptual density functional theory and aromaticity. , 2021, , 285-319.		1
15	Chemical reactivity from a conceptual density functional theory perspective. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100008.	2.8	15
16	Possible effects of fluxionality of a cavitand on its catalytic activity through confinement. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15817-15834.	2.8	5
17	Reactivity Dynamics. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2051-2060.	2.5	34
18	Editorial: "Changing the Perspective of the Noble Gas Reactivity". <i>Frontiers in Chemistry</i> , 2021, 9, 658318.	3.6	1

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19	Comparison Between Electride Characteristics of Li ₃ @B ₄₀ and Li ₃ @C ₆₀ . <i>Frontiers in Chemistry</i> , 2021, 9, 638581.	3.6	11
20	Determination of stable structure of a cluster using convolutional neural network and particle swarm optimization. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	14
21	Does confinement alter the ionization energy and electron affinity of atoms?. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	5
22	Electride characteristics of M ₂ (I ⁻⁵ -E ₅) ₂ (M = Be, Mg; E = Sb ⁵⁻). <i>Structural Chemistry</i> , 2021, 32, 2107-2114.	2.0	5
23	H ₂ adsorption by noble gas insertion compounds: A computational study. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100060.	2.8	1
24	Local Temperature as a Chemical Reactivity Descriptor. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5623-5630.	4.6	17
25	Substituent Effects on Electride Characteristics of Mg ₂ (I ⁻⁵ -C ₅ H ₅) ₂ : A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6207-6220.	2.5	10
26	Biological Activity, Physical Properties, and Toxicity. <i>International Journal of Quantitative Structure-Property Relationships</i> , 2021, 6, 25-34.	0.5	1
27	Conceptual DFT based electronic structure principles in a dynamical context. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100098.	2.8	10
28	A computational investigation of the activation of allene (H ₂ C=CH ₂ ; R=H, CH ₃ , CN) by a frustrated phosphorous/boron Lewis pair. <i>Chemical Physics Letters</i> , 2021, 774, 138623.	2.6	14
29	Atomic Clusters: Structure, Reactivity, Bonding, and Dynamics. <i>Frontiers in Chemistry</i> , 2021, 9, 730548.	3.6	14
30	In Silico Studies on Selected Neutral Molecules, CGa ₂ Ge ₂ , CAlGaGe ₂ , and CSiGa ₂ Ge Containing Planar Tetracoordinate Carbon. <i>Atoms</i> , 2021, 9, 65.	1.6	16
31	Conceptual density functional theory based electronic structure principles. <i>Chemical Science</i> , 2021, 12, 6264-6279.	7.4	96
32	Self-healable functional polymers based on Diels-Alder "click chemistry"™ involving substituted furan and triazolinedione derivatives: a simple and very fast approach. <i>Polymer Chemistry</i> , 2021, 12, 6283-6290.	3.9	4
33	Effect of confinement on the behavior of superhalogen and superalkali. <i>Computational and Theoretical Chemistry</i> , 2021, 1206, 113491.	2.5	2
34	Aromatic Clusters as Potential Hydrogen Storage Materials. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	3
35	XNgNSi (X = HCC, F; Ng = Kr, Xe, Rn): A New Class of Metastable Insertion Compounds Containing Ng-C/F and Ng-N Bonds and Possible Isomerization therein. <i>Journal of Physical Chemistry A</i> , 2021, , .	2.5	2
36	Quantitative structure-toxicity relationship: An "in silico study" using electrophilicity and hydrophobicity as descriptors. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26097.	2.0	17

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37	Filling the void: controlled donor-acceptor interaction facilitates the formation of an M-M single bond in the zero oxidation state of M (M = Zn, Cd, Hg). Dalton Transactions, 2020, 49, 1056-1064.	3.3	19
38	Ligand stabilized transient σ -MNC and its influence on MNC π -MNC isomerization process: a computational study (M = Cu, Ag, and Au). Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	3
39	Towards understanding metal aromaticity in different spin states: A density functional theory and information-theoretic approach analysis. Chemical Physics Letters, 2020, 761, 138065.	2.6	13
40	Electride Characteristics of Some Binuclear Sandwich Complexes of Alkaline Earth Metals, $M_2(L)_2$ (M = Be, Mg; L =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (C ₅ H ₁₇	2.5	17
41	Can a decrease in anti-aromaticity increase the dihydrogen activation ability of a frustrated phosphorous/borane Lewis pair?: a DFT study. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	10
42	Changes in Structure and Reactivity of Ng ₂ Encapsulated in Fullerenes: A Density Functional Theory Study. Frontiers in Chemistry, 2020, 8, 566.	3.6	7
43	Noble Gas Binding Ability of an Au(I) Cation Stabilized by a Frustrated Lewis Pair: A DFT Study. Frontiers in Chemistry, 2020, 8, 616.	3.6	4
44	Intriguing structural, bonding and reactivity features in some beryllium containing complexes. Physical Chemistry Chemical Physics, 2020, 22, 27476-27495.	2.8	10
45	Fast σ -Click Reaction Involving Furfuryl and Triazolinedione Functionalities toward Designing a Healable Polymethacrylate. Macromolecules, 2020, 53, 8313-8323.	4.8	11
46	Effect of substitution on the bonding in He dimer confined within dodecahedrane: A computational study. Journal of Computational Chemistry, 2020, 41, 2398-2405.	3.3	5
47	Cycloaddition Reactions between $H_2C = CHR$ (R = H, CN, CH_3) and a Cyclic P/B Frustrated Lewis Pair: A DFT Study. Journal of Physical Chemistry A, 2020, 124, 4455-4462.	2.5	18
48	Low Operating Voltage Organic Field-Effect Transistors with Gelatin as a Moisture-Induced Ionic Dielectric Layer: The Issues of High Carrier Mobility. ACS Applied Materials & Interfaces, 2020, 12, 19727-19736.	8.0	31
49	Tribute to Paul Geerlings. Journal of Physical Chemistry A, 2020, 124, 5061-5062.	2.5	0
50	Integrating firefly algorithm with density functional theory for global optimization of Al ₄₂ clusters. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	7
51	Flexibility Induced Encapsulation of Ultrafine Palladium Nanoparticles into Organic Cages for Tsuji-Trost Allylation. ACS Applied Materials & Interfaces, 2020, 12, 8539-8546.	8.0	17
52	Conceptual density functional theory: status, prospects, issues. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	249
53	Metal-Organic Frameworks of Cu(II) Constructed from Functionalized Ligands for High Capacity H_2 and CO_2 Gas Adsorption and Catalytic Studies. Inorganic Chemistry, 2020, 59, 1810-1822.	4.0	25
54	Encapsulation of Mg_2 inside a C_{60} cage forms an electride. Journal of Computational Chemistry, 2020, 41, 1645-1653.	3.3	20

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55	Two Closely Related Zn(II)-MOFs for Their Large Difference in CO ₂ Uptake Capacities and Selective CO ₂ Sorption. <i>Inorganic Chemistry</i> , 2020, 59, 7056-7066.	4.0	35
56	A conceptual DFT analysis of the plausible mechanism of some pericyclic reactions. <i>Structural Chemistry</i> , 2020, 31, 1745-1756.	2.0	8
57	Quantitative Structure-Toxicity Relationship Models Based on Hydrophobicity and Electrophilicity. <i>Methods in Pharmacology and Toxicology</i> , 2020, , 661-679.	0.2	5
58	How Far Can One Push the Noble Gases Towards Bonding?: A Personal Account. <i>Molecules</i> , 2019, 24, 2933.	3.8	34
59	A new healable polymer material based on ultrafast Diels-Alder "click" chemistry using triazolinedione and fluorescent anthracyl derivatives: a mechanistic approach. <i>Polymer Chemistry</i> , 2019, 10, 5070-5079.	3.9	21
60	Modified Particle Swarm Optimization Algorithms for the Generation of Stable Structures of Carbon Clusters, C _n (n = 3-6, 10). <i>Frontiers in Chemistry</i> , 2019, 7, 485.	3.6	28
61	Is It Possible To Determine Oxidation States for Atoms in Molecules Using Density-Based Quantities? An Information-Theoretic Approach and Conceptual Density Functional Theory Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6751-6760.	2.5	43
62	A Complex Containing Four Magnesium Atoms and Two Mg-Mg Bonds Behaving as an Electride. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4105-4111.	2.0	15
63	A theoretical investigation on boron-ligand cooperation to activate molecular hydrogen by a frustrated Lewis pair and subsequent reduction of carbon dioxide. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21267-21277.	2.8	27
64	Noble-Noble Strong Union: Gold at Its Best to Make a Bond with a Noble Gas Atom. <i>ChemistryOpen</i> , 2019, 8, 173-187.	1.9	42
65	Microsolvation of lithium-phosphorus double helix: a DFT study. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	1.4	2
66	Bonding, Reactivity, and Dynamics in Confined Systems. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4513-4531.	2.5	48
67	Unprecedented Bonding Situation in Viable E ₂ (NHBMe) ₂ (E=Be, Tj ETQq1 1 0.784314 rgBT /Ov	2.0	22
68	Unprecedented Bonding Situation in Viable E ₂ (NHBMe) ₂ (E=Be, Tj ETQq0 0 0 rgBT /Overlock 10	13.8	62
69	An Intramolecular Charge Transfer Induced Fluorescent Chemosensor for Selective Detection of Mercury (II) and its Self-Turn-On Inside Live Cells at Physiological pH. <i>ChemistrySelect</i> , 2019, 4, 4810-4819.	1.5	11
70	An In Silico QSAR Model Study Using Electrophilicity as a Possible Descriptor Against T. Brucei. <i>International Journal of Chemoinformatics and Chemical Engineering</i> , 2019, 8, 57-68.	0.1	3
71	A comparative study to predict regioselectivity, electrophilicity and nucleophilicity with Fukui function and Hirshfeld charge. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	1.4	138
72	Donor-Acceptor vs Electron-Shared Bonding: Triatomic Si ₃ C ₃ ($\langle i \rangle n \langle /i \rangle \hat{a} \% 3$) Clusters Stabilized by Cyclic Alkyl(amino) Carbene. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10764-10771.	2.5	5

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73	Hydrophobicity versus electrophilicity: A new protocol toward quantitative structure–toxicity relationship. <i>Chemical Biology and Drug Design</i> , 2019, 93, 1083-1095.	3.2	18
74	A computational study on hydrogenation of CO ₂ , catalyzed by a bridged B/N frustrated Lewis pair. <i>Structural Chemistry</i> , 2019, 30, 1067-1077.	2.0	23
75	Frontispiece: Stable NCNgNSi (Ng=Kr, Xe, Rn) Compounds with Covalently Bound C–Ng–N Unit: Possible Isomerization of NCNSi through the Release of the Noble Gas Atom. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
76	Fixation of nitrous oxide (N ₂ O) by 1, 4, 2, 5-diazadiborinine: A DFT study. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25593.	2.0	14
77	Diagrams for comprehensive molecular orbital-based chemical reaction analyses: reactive orbital energy diagrams. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14211-14222.	2.8	8
78	Planar pentacoordinate carbon in CGa ₅ ⁺ derivatives. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12350-12355.	2.8	41
79	Tunneling and quantum localization in chaos-driven symmetric triple well potential: An approach using quantum theory of motion. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25531.	2.0	3
80	Reactions involving some gas molecules through sequestration on Al ₁₂ Be cluster: An electron density based study. <i>Journal of Computational Chemistry</i> , 2018, 39, 535-545.	3.3	5
81	Host–guest interactions between octa acid and cations/nucleobases. <i>Journal of Computational Chemistry</i> , 2018, 39, 161-175.	3.3	12
82	Stable NCNgNSi (Ng=Kr, Xe, Rn) Compounds with Covalently Bound C–Ng–N Unit: Possible Isomerization of NCNSi through the Release of the Noble Gas Atom. <i>Chemistry - A European Journal</i> , 2018, 24, 2879-2887.	3.3	20
83	Boron Nanowheels with Axles Containing Noble Gas Atoms: Viable Noble Gas Bound M ₁₀ ⁺ Clusters (M=Nb, Ta). <i>Chemistry - A European Journal</i> , 2018, 24, 3590-3598.	3.3	19
84	Noble gas encapsulated B ₄₀ cage. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1953-1963.	2.8	41
85	A possible reason behind the initial formation of pentagonal dodecahedron cavities in sl-methane hydrate nucleation: A DFT study. <i>Chemical Physics Letters</i> , 2018, 691, 415-420.	2.6	3
86	Confinement induced thermodynamic and kinetic facilitation of some Diels–Alder reactions inside a CB[7] cavitand. <i>Journal of Computational Chemistry</i> , 2018, 39, 151-160.	3.3	34
87	HNgBeF ₃ (Ng=Ar, Rn): Superhalogen-supported noble gas insertion compounds. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25499.	2.0	15
88	Hydrogen Storage in All-Metal and Nonmetal Aromatic Clusters. , 2018, , 329-362.		0
89	Adsorption of Molecular Hydrogen on Lithium–Phosphorus Double-Helices. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27941-27946.	3.1	7
90	Activation of Small Molecules (H ₂ , CO ₂ , N ₂ O, CH ₄), Tj ETQq0 0 0 rgBT /Overlock 1 Omega, 2018, 3, 17199-17211.	3.5	13

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91	Stabilization of Boronâ€“Boron Triple Bonds by Mesoionic Carbenes. ACS Omega, 2018, 3, 13720-13730.	3.5	17
92	Analyzing torquoselectivity in a series of unusual ringâ€“opening reactions through bond reactivity indices and the adaptive natural density partitioning method. International Journal of Quantum Chemistry, 2018, 118, e25778.	2.0	5
93	A (Tâ€“P) phase diagram for the adsorption/desorption of carbon dioxide and hydrogen in a Cu(II)-MOF. Polyhedron, 2018, 153, 254-260.	2.2	7
94	Exohedral complexation of B with ECp ⁺ half-sandwich complexes (E = Si, Ge, Sn, Pb): A DFT study. Computational and Theoretical Chemistry, 2018, 1140, 49-55.	2.5	25
95	Noble Gas Inserted Metal Acetylides (Metal = Cu, Ag, Au). Journal of Physical Chemistry A, 2018, 122, 7391-7401.	2.5	25
96	A machine learning technique toward generating minimum energy structures of small boron clusters. International Journal of Quantum Chemistry, 2018, 118, e25672.	2.0	11
97	Confinement induced catalytic activity in a Diels-Alder reaction: comparison among various CB[n], nâ€“= 6, 8, cavitands. Journal of Molecular Modeling, 2018, 24, 228.	1.8	7
98	Cyanideâ€“isocyanide isomerization: stability and bonding in noble gas inserted metal cyanides (metal = Tl, Pb, Bi, Po, At, Rn). Journal of Physical Chemistry A, 2017, 121, 10743-10751.	2.8	32
99	Aromaticity in the Light of Magnetic Criteria. Current Organic Chemistry, 2018, 21, .	1.6	0
100	Ligandâ€“Supported E ₃ Clusters (E = Siâ€“Sn). Chemistry - A European Journal, 2017, 23, 7463-7473.	3.3	11
101	NgMCp ⁺ : Noble Gas Bound Half-Sandwich Complexes (Ng = Heâ€“Rn, M = Beâ€“Ba, and Cp =) Tj ETQq 1.1 0.784314 rgBT /Overlock 1	2.5	13
102	Binding of Small Gas Molecules by Metalâ€“Bipyridyl Monocationic Complexes (Metal = Cu, Ag, Au) and Possible Bond Activations Therein. Journal of Physical Chemistry A, 2017, 121, 3803-3817.	2.5	16
103	Aromaticity and antiaromaticity of substituted fulvene derivatives: perspectives from the information-theoretic approach in density functional reactivity theory. Physical Chemistry Chemical Physics, 2017, 19, 18635-18645.	2.8	43
104	Does Confinement Always Lead to Thermodynamically and/or Kinetically Favorable Reactions? A Case Study using Dielsâ€“Alder Reactions within ExBox ⁺ and CB[7]. ChemPhysChem, 2017, 18, 2162-2170.	2.1	24
105	Frontispiece: Ligandâ€“Supported E ₃ Clusters (E = Siâ€“Sn). Chemistry - A European Journal, 2017, 23, .	3.3	0
106	Modeling of 1-D Nanowires and analyzing their Hydrogen and Noble Gas Binding Ability. Journal of Chemical Sciences, 2017, 129, 849-858.	1.5	10
107	A Spinning Umbrella: Carbon Monoxide and Dinitrogen Bound MB ₁₂ ⁺ Clusters (M = Co, Rh, Ir). Journal of Physical Chemistry A, 2017, 121, 2971-2979.	2.5	31
108	The strongest CO binding and the highest Câ€“O stretching frequency. Physical Chemistry Chemical Physics, 2017, 19, 2286-2293.	2.8	19

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109	Effect of functionalization of boron nitride flakes by main group metal clusters on their optoelectronic properties. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 425201.	1.8	6
110	MNgCCH (M = Cu, Ag, Au; Ng = Xe, Rn): The First Set of Compounds with M–Ng–C Bonding Motif. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6491-6499.	2.5	27
111	Change in optoelectronic properties of ExBox ⁺⁴ on functionalization and guest encapsulation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23373-23385.	2.8	10
112	Endohedral gas adsorption by cucurbit[7]uril: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24448-24452.	2.8	13
113	Does Confinement Always Lead to Thermodynamically and/or Kinetically Favorable Reactions? A Case Study using Diels-Alder Reactions within ExBox ⁺⁴ and CB[7]. <i>ChemPhysChem</i> , 2017, 18, 2136-2136.	2.1	0
114	Finite temperature grand canonical ensemble study of the minimum electrophilicity principle. <i>Journal of Chemical Physics</i> , 2017, 147, 124103.	3.0	33
115	A Cu(ii)-MOF capable of fixing CO ₂ from air and showing high capacity H ₂ and CO ₂ adsorption. <i>Chemical Communications</i> , 2017, 53, 13371-13374.	4.1	57
116	Role of Lithium Decoration on Hydrogen Storage Potential. <i>Journal of the Mexican Chemical Society</i> , 2017, 56, .	0.6	4
117	Quantitative Structure-Activity/Property/Toxicity Relationships through Conceptual Density Functional Theory-Based Reactivity Descriptors. , 2017, , 1517-1572.		7
118	Favorable Direction in a Chemical Reaction Through the Maximum Hardness Principle. <i>Journal of the Mexican Chemical Society</i> , 2017, 57, .	0.6	0
119	Statistical Significance of the Maximum Hardness Principle Applied to Some Selected Chemical Reactions. <i>Molecules</i> , 2016, 21, 1477.	3.8	7
120	A noble interaction: An assessment of noble gas binding ability of metal oxides (metal = Cu, Ag, Au). <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1016-1024.	2.0	26
121	Structure and stability of noble gas bound compounds (E = C, Ge, Sn, Pb; X = H, F, Cl, Br). <i>Journal of Computational Chemistry</i> , 2016, 37, 226-236.	3.3	28
122	Solution of the "Classical" Schrödinger equation for a driven symmetric triple well: A comparison with its classical counterpart. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1224-1243.	2.0	8
123	Possible sequestration of polar gas molecules by superhalogen supported aluminum nitride nanoflakes. <i>Journal of Molecular Modeling</i> , 2016, 22, 271.	1.8	3
124	Ring Expansion of Donor–Acceptor Cyclopropane via Substituent Controlled Selective N-Transfer of Oxaziridine: Synthetic and Mechanistic Insights. <i>Organic Letters</i> , 2016, 18, 4940-4943.	4.6	73
125	Structure, stability, and nature of bonding in carbon monoxide bound complexes (E = group 14 element; J. ETQq1 1.0.7843 3.3 13	3.3	13
126	Noble gas supported B ₃ cluster: formation of strong covalent noble gas–boron bonds. <i>RSC Advances</i> , 2016, 6, 78611-78620.	3.6	40

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127	A computational study on structure, stability and bonding in Noble Gas bound metal Nitrates, Sulfates and Carbonates (Metal = Cu, Ag, Au). Journal of Chemical Sciences, 2016, 128, 1537-1548.	1.5	27
128	Noble gas bound beryllium chromate and beryllium hydrogen phosphate: a comparison with noble gas bound beryllium oxide. RSC Advances, 2016, 6, 92786-92794.	3.6	20
129	Sequestration and Activation of Small Gas Molecules on BN-Flakes and the Effect of Various Metal Oxide Molecules therein. Journal of Physical Chemistry C, 2016, 120, 27782-27799.	3.1	9
130	Noble Gas Binding Ability of Metal- π -Bipyridine Monocationic Complexes (Metal=Cu, Ag, Au): A Computational Study. ChemistrySelect, 2016, 1, 5842-5849.	1.5	18
131	Encapsulation of small gas molecules and rare gas atoms inside the octa acid cavitand. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	29
132	Optical response and gas sequestration properties of metal cluster supported graphene nanoflakes. Physical Chemistry Chemical Physics, 2016, 18, 18811-18827.	2.8	26
133	Selectivity in Gas Adsorption by Molecular Cucurbit[6]uril. Journal of Physical Chemistry C, 2016, 120, 13911-13921.	3.1	49
134	How strong are the metallocene-metalloccene interactions? Cases of ferrocene, ruthenocene, and osmocene. Physical Chemistry Chemical Physics, 2016, 18, 550-556.	2.8	34
135	Structure and bonding of IrB ₁₂ ⁺ : converting a rigid boron B ₁₂ platelet to a Wankel motor. RSC Advances, 2016, 6, 27177-27182.	3.6	67
136	Viability of aromatic all-pnictogen anions. Physical Chemistry Chemical Physics, 2016, 18, 11738-11745.	2.8	9
137	η^5 -Aromatic cyclic M ₃ ⁺ (M = Cu, Ag, Au) clusters and their complexation with dimethyl imidazol-2-ylidene, pyridine, isoxazole, furan, noble gases and carbon monoxide. Physical Chemistry Chemical Physics, 2016, 18, 11661-11676.	2.8	49
138	Dynamical behavior of Borospherene: A Nanobubble. Scientific Reports, 2015, 5, 11287.	3.3	81
139	Fermi accelerator: A new insight from quantum theory of motion. International Journal of Quantum Chemistry, 2015, 115, 1733-1738.	2.0	4
140	Three-dimensional networks containing rectangular Sr ₄ and Ba ₄ units: Synthesis, structure, bonding, and potential application for Ne gas separation. International Journal of Quantum Chemistry, 2015, 115, 1501-1510.	2.0	6
141	Comparative Study on the Noble-Gas Binding Ability of BeX Clusters (X = SO ₄ , Tj ETQq1 1 0.784314 $\frac{rgBT}{Overlock 10$	2.55	47
142	Orbital free DFT versus single density equation: a perspective through quantum domain behavior of a classically chaotic system. Physical Chemistry Chemical Physics, 2015, 17, 31516-31529.	2.8	13
143	Quantitative Structure-Activity/Property/Toxicity Relationships through Conceptual Density Functional Theory-Based Reactivity Descriptors. Advances in Chemical and Materials Engineering Book Series, 2015, , 123-179.	0.3	1
144	Cucurbit[6]uril: A Possible Host for Noble Gas Atoms. Journal of Physical Chemistry B, 2015, 119, 10962-10974.	2.6	50

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145	Confinement induced binding in noble gas atoms within a BN-doped carbon nanotube. <i>Chemical Physics Letters</i> , 2015, 621, 29-34.	2.6	33
146	Unique bonding pattern and resulting bond stretch isomerism in Be ₃ 2 ⁺ . <i>International Journal of Quantum Chemistry</i> , 2015, 115, 426-433.	2.0	8
147	Scaling properties of information-theoretic quantities in density functional reactivity theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4977-4988.	2.8	65
148	In Quest of a Superhalogen Supported Covalent Bond Involving a Noble Gas Atom. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3064-3074.	2.5	23
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