

Pratim Kumar Chattaraj

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

277
papers

10,328
citations

45
h-index

93
g-index

300
ext. papers

11,800
ext. citations

4.1
avg. IF

6.73
L-index

#	Paper	IF	Citations
277	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	1.8	2
276	Activation of Small Molecules and Hydrogenation of CO ₂ Catalyzed by Frustrated Lewis Pairs. <i>Catalysts</i> , 2022 , 12, 201	4	1
275	CSiGaAl and CGeGaAl having planar tetracoordinate carbon atoms in their global minimum energy structures.. <i>Journal of Computational Chemistry</i> , 2022 ,	3.5	4
274	Revisiting the trapping of noble gases (He-Kr) by the triatomic H and Li species: a density functional reactivity theory study.. <i>Journal of Molecular Modeling</i> , 2022 , 28, 122	2	0
273	Chemical Reactivity in Time-Dependent Situations 2022 , 161-185		
272	A Conceptual DFT Approach Toward Analyzing Hydrogen Storage Potential 2022 , 533-553		0
271	Effect of confinement on the behavior of superhalogen and superalkali. <i>Computational and Theoretical Chemistry</i> , 2021 , 1206, 113491	2	0
270	Comparison Between Electride Characteristics of Li@B and Li@C. <i>Frontiers in Chemistry</i> , 2021 , 9, 6385815		6
269	Determination of stable structure of a cluster using convolutional neural network and particle swarm optimization. <i>Theoretical Chemistry Accounts</i> , 2021 , 140, 1	1.9	7
268	Does confinement alter the ionization energy and electron affinity of atoms?. <i>European Physical Journal D</i> , 2021 , 75, 1	1.3	2
267	Electride characteristics of M ₂ (B-E ₅) ₂ (M = Be, Mg; E = Sb ⁵⁻). <i>Structural Chemistry</i> , 2021 , 32, 2107	1.8	1
266	H ₂ adsorption by noble gas insertion compounds: A computational study. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100060		1
265	Local Temperature as a Chemical Reactivity Descriptor. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5623-5630	6.4	7
264	Substituent Effects on Electride Characteristics of Mg(ECH): A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 6207-6220	2.8	4
263	Biological Activity, Physical Properties, and Toxicity. <i>International Journal of Quantitative Structure-Property Relationships</i> , 2021 , 6, 25-34	1.2	0
262	Conceptual DFT based electronic structure principles in a dynamical context. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100098		0
261	A computational investigation of the activation of allene (H ₂ C = C = CHR; R = H, CH ₃ , CN) by a frustrated phosphorous/boron Lewis pair. <i>Chemical Physics Letters</i> , 2021 , 774, 138623	2.5	4

260	Can superalkalis and superhalogens improve the efficacy of redox reactions?. <i>Chemical Physics Letters</i> , 2021 , 762, 138131	2.5	2
259	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	3.6	2
258	Conceptual density functional theory and aromaticity 2021 , 285-319		
257	Chemical reactivity from a conceptual density functional theory perspective. <i>Journal of the Indian Chemical Society</i> , 2021 , 98, 100008		3
256	Possible effects of fluxionality of a cavitand on its catalytic activity through confinement. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15817-15834	3.6	3
255	Reactivity Dynamics. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 2051-2060	2.8	11
254	Box-Shaped Hosts: Evaluation of the Interaction Nature and Host Characteristics of ExBox Derivatives in Host-Guest Complexes from Computational Methods 2021 , 395-416		1
253	Pressure-Induced Phase Transitions 2021 , 25-47		
252	Atomic Clusters: Structure, Reactivity, Bonding, and Dynamics. <i>Frontiers in Chemistry</i> , 2021 , 9, 730548	5	4
251	Conceptual DFT and Confinement 2021 , 49-67		0
250	Engineering the Confined Space of MOFs for Heterogeneous Catalysis of Organic Transformations 2021 , 293-333		2
249	Confinement Induced Chemical Bonding: Case of Noble Gases 2021 , 239-261		
248	Chemical Binding and Reactivity Parameters: A Unified Coarse Grained Density Functional View 2021 , 167-177		0
247	Unveiling the Mysterious Mechanisms of Chemical Reactions 2021 , 81-97		1
246	A Perspective on the So-Called Dual Descriptor 2021 , 99-112		
245	Conceptual Density Functional Theory in the Grand Canonical Ensemble 2021 , 191-211		1
244	Effect of Confinement on Gas Storage Potential and Catalytic Activity 2021 , 273-291		
243	Chemical Reactivity Within the Spin-Polarized Framework of Density Functional Theory 2021 , 135-165		0

242	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	2.1	5
241	Conceptual density functional theory based electronic structure principles. <i>Chemical Science</i> , 2021 , 12, 6264-6279	9.4	26
240	Cycloaddition Reactions between HC = CHR (R = H, CN, CH) and a Cyclic P/B Frustrated Lewis Pair: A DFT Study. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4455-4462	2.8	10
239	Low Operating Voltage Organic Field-Effect Transistors with Gelatin as a Moisture-Induced Ionic Dielectric Layer: The Issues of High Carrier Mobility. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19727-19736	9.5	12
238	Tribute to Paul Geerlings. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5061-5062	2.8	
237	Integrating firefly algorithm with density functional theory for global optimization of Al ₄ Zn ₂ clusters. <i>Theoretical Chemistry Accounts</i> , 2020 , 139, 1	1.9	7
236	Flexibility Induced Encapsulation of Ultrafine Palladium Nanoparticles into Organic Cages for Tsuji-Trost Allylation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8539-8546	9.5	9
235	Conceptual density functional theory: status, prospects, issues. <i>Theoretical Chemistry Accounts</i> , 2020 , 139, 1	1.9	113
234	Metal-Organic Frameworks of Cu(II) Constructed from Functionalized Ligands for High Capacity H ₂ and CO Gas Adsorption and Catalytic Studies. <i>Inorganic Chemistry</i> , 2020 , 59, 1810-1822	5.1	16
233	Encapsulation of Mg inside a C cage forms an electride. <i>Journal of Computational Chemistry</i> , 2020 , 41, 1645-1653	3.5	12
232	Two Closely Related Zn(II)-MOFs for Their Large Difference in CO Uptake Capacities and Selective CO Sorption. <i>Inorganic Chemistry</i> , 2020 , 59, 7056-7066	5.1	19
231	Quantitative structure-toxicity relationship: An in silico study using electrophilicity and hydrophobicity as descriptors. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26097	2.1	7
230	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). <i>Dalton Transactions</i> , 2020 , 49, 1056-1064	4.3	13
229	Ligand stabilized transient MNC and its influence on MNC → MCN isomerization process: a computational study (M = Cu, Ag, and Au). <i>Theoretical Chemistry Accounts</i> , 2020 , 139, 1	1.9	1
228	Towards understanding metal aromaticity in different spin states: A density functional theory and information-theoretic approach analysis. <i>Chemical Physics Letters</i> , 2020 , 761, 138065	2.5	6
227	Electride Characteristics of Some Binuclear Sandwich Complexes of Alkaline Earth Metals, M(L) ₂ (M = Be, Mg; L = CH, N, P, As). <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9801-9810	2.8	9
226	Can a decrease in anti-aromaticity increase the dihydrogen activation ability of a frustrated phosphorous/borane Lewis pair?: a DFT study. <i>Theoretical Chemistry Accounts</i> , 2020 , 139, 1	1.9	5
225	Changes in Structure and Reactivity of Ng Encapsulated in Fullerenes: A Density Functional Theory Study. <i>Frontiers in Chemistry</i> , 2020 , 8, 566	5	3

224	Noble Gas Binding Ability of an Au(I) Cation Stabilized by a Frustrated Lewis Pair: A DFT Study. <i>Frontiers in Chemistry</i> , 2020 , 8, 616	5	0
223	Intriguing structural, bonding and reactivity features in some beryllium containing complexes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 27476-27495	3.6	2
222	Fast ES-Click Reaction Involving Furfuryl and Triazolinedione Functionalities toward Designing a Healable Polymethacrylate. <i>Macromolecules</i> , 2020 , 53, 8313-8323	5.5	5
221	Effect of substitution on the bonding in He dimer confined within dodecahedrane: A computational study. <i>Journal of Computational Chemistry</i> , 2020 , 41, 2398-2405	3.5	4
220	A conceptual DFT analysis of the plausible mechanism of some pericyclic reactions. <i>Structural Chemistry</i> , 2020 , 31, 1745-1756	1.8	3
219	Quantitative Structure-Toxicity Relationship Models Based on Hydrophobicity and Electrophilicity. <i>Methods in Pharmacology and Toxicology</i> , 2020 , 661-679	1.1	3
218	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	3.6	18
217	Noble-Noble Strong Union: Gold at Its Best to Make a Bond with a Noble Gas Atom. <i>ChemistryOpen</i> , 2019 , 8, 173-187	2.3	30
216	Microsolvation of lithium-phosphorus double helix: a DFT study. <i>Theoretical Chemistry Accounts</i> , 2019 , 138, 1	1.9	1
215	Bonding, Reactivity, and Dynamics in Confined Systems. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 4513-4831	15.31	34
214	Unprecedented Bonding Situation in Viable E ₂ (NHBMe) ₂ (E=Be, Mg; NHBMe=(HCNMe) ₂ B) Complexes: Neutral E ₂ Forms a Single E-E Covalent Bond. <i>Angewandte Chemie</i> , 2019 , 131, 8460	3.6	
213	Unprecedented Bonding Situation in Viable E (NHB) (E=Be, Mg; NHB=(HCN)B) Complexes: Neutral E Forms a Single E-E Covalent Bond. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8372-8377	16.4	40
212	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	1.8	8
211	How Far Can One Push the Noble Gases Towards Bonding?: A Personal Account. <i>Molecules</i> , 2019 , 24,	4.8	18
210	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	4.9	7
209	Modified Particle Swarm Optimization Algorithms for the Generation of Stable Structures of Carbon Clusters, C (= 3-6, 10). <i>Frontiers in Chemistry</i> , 2019 , 7, 485	5	21
208	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	2.8	18
207	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	2.3	11

206	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	0.3	0
205	A comparative study to predict regioselectivity, electrophilicity and nucleophilicity with Fukui function and Hirshfeld charge. <i>Theoretical Chemistry Accounts</i> , 2019 , 138, 1	1.9	50
204	Donor-Acceptor vs Electron-Shared Bonding: Triatomic SiC (B) Clusters Stabilized by Cyclic Alkyl(amino) Carbene. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10764-10771	2.8	3
203	Hydrophobicity versus electrophilicity: A new protocol toward quantitative structure-toxicity relationship. <i>Chemical Biology and Drug Design</i> , 2019 , 93, 1083-1095	2.9	10
202	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	1.8	12
201	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	2.1	10
200	Diagrams for comprehensive molecular orbital-based chemical reaction analyses: reactive orbital energy diagrams. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14211-14222	3.6	3
199	Planar pentacoordinate carbon in CGa derivatives. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12350-12355	2.7	27
198	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	2.1	1
197	A (TB) phase diagram for the adsorption/desorption of carbon dioxide and hydrogen in a Cu(II)-MOF. <i>Polyhedron</i> , 2018 , 153, 254-260	2.7	4
196	Exohedral complexation of B ₃₉ - with ECp*+ half-sandwich complexes (E Si, Ge, Sn, Pb): A DFT study. <i>Computational and Theoretical Chemistry</i> , 2018 , 1140, 49-55	2	1
195	Noble Gas Inserted Metal Acetylides (Metal = Cu, Ag, Au). <i>Journal of Physical Chemistry A</i> , 2018 , 122, 7391-7401	2.7	20
194	Confinement induced catalytic activity in a Diels-Alder reaction: comparison among various CB[n], n = 6-8, cavitands. <i>Journal of Molecular Modeling</i> , 2018 , 24, 228	2	5
193	Cyanide-isocyanide isomerization: stability and bonding in noble gas inserted metal cyanides (metal = Cu, Ag, Au). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18491-18502	3.6	26
192	Reactions involving some gas molecules through sequestration on Al Be cluster: An electron density based study. <i>Journal of Computational Chemistry</i> , 2018 , 39, 535-545	3.5	3
191	Host-guest interactions between octa acid and cations/nucleobases. <i>Journal of Computational Chemistry</i> , 2018 , 39, 161-175	3.5	10
190	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	4.8	18
189	Boron Nanowheels with Axles Containing Noble Gas Atoms: Viable Noble Gas Bound M ₂ B Clusters (M=Nb, Ta). <i>Chemistry - A European Journal</i> , 2018 , 24, 3590-3598	4.8	14

188	Noble gas encapsulated B cage. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1953-1963	3.6	29
187	A possible reason behind the initial formation of pentagonal dodecahedron cavities in si-methane hydrate nucleation: A DFT study. <i>Chemical Physics Letters</i> , 2018 , 691, 415-420	2.5	1
186	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	3.5	24
185	HNgBeF ₃ (Ng = Ar-Rn): Superhalogen-supported noble gas insertion compounds. <i>International Journal of Quantum Chemistry</i> , 2018 , 118, e25499	2.1	11
184	Hydrogen Storage in All-Metal and Nonmetal Aromatic Clusters 2018 , 329-362		
183	Adsorption of Molecular Hydrogen on LithiumPhosphorus Double-Helices. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27941-27946	3.8	7
182	Activation of Small Molecules (H ₂ , CO, NO, CH ₄ , and C ₂ H ₂) by a Porphyrinoid-Based Dimagnesium(II) Complex, an Electride. <i>ACS Omega</i> , 2018 , 3, 17199-17211	3.9	9
181	Stabilization of Boron-Boron Triple Bonds by Mesoionic Carbenes. <i>ACS Omega</i> , 2018 , 3, 13720-13730	3.9	13
180	Analyzing torquoselectivity in a series of unusual ring-opening reactions through bond reactivity indices and the adaptive natural density partitioning method. <i>International Journal of Quantum Chemistry</i> , 2018 , 118, e25778	2.1	4
179	Ligand-Supported E Clusters (E=Si-Sn). <i>Chemistry - A European Journal</i> , 2017 , 23, 7463-7473	4.8	10
178	NgMCp: Noble Gas Bound Half-Sandwich Complexes (Ng = He-Rn, M = Be-Ba, and Cp = η^5 -C ₅ H ₅). <i>Journal of Physical Chemistry A</i> , 2017 , 121, 3526-3539	2.8	10
177	Binding of Small Gas Molecules by Metal-Bipyridyl Monocationic Complexes (Metal = Cu, Ag, Au) and Possible Bond Activations Therein. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 3803-3817	2.8	14
176	Aromaticity and antiaromaticity of substituted fulvene derivatives: perspectives from the information-theoretic approach in density functional reactivity theory. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18635-18645	3.6	30
175	Does Confinement Always Lead to Thermodynamically and/or Kinetically Favorable Reactions? A Case Study using Diels-Alder Reactions within ExBox and CB[7]. <i>ChemPhysChem</i> , 2017 , 18, 2162-2170	3.2	20
174	Modeling of 1-D Nanowires and analyzing their Hydrogen and Noble Gas Binding Ability. <i>Journal of Chemical Sciences</i> , 2017 , 129, 849-858	1.8	7
173	A Spinning Umbrella: Carbon Monoxide and Dinitrogen Bound MB Clusters (M = Co, Rh, Ir). <i>Journal of Physical Chemistry A</i> , 2017 , 121, 2971-2979	2.8	24
172	The strongest CO binding and the highest C-O stretching frequency. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 2286-2293	3.6	14
171	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	2

170	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	2.8	22
169	Change in optoelectronic properties of ExBox on functionalization and guest encapsulation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23373-23385	3.6	9
168	Endohedral gas adsorption by cucurbit[7]uril: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24448-24452	3.6	13
167	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	3.2	
166	Finite temperature grand canonical ensemble study of the minimum electrophilicity principle. <i>Journal of Chemical Physics</i> , 2017 , 147, 124103	3.9	23
165	A Cu(ii)-MOF capable of fixing CO from air and showing high capacity H and CO adsorption. <i>Chemical Communications</i> , 2017 , 53, 13371-13374	5.8	47
164	Role of Lithium Decoration on Hydrogen Storage Potential 2017 , 56,		2
163	Quantitative Structure-Activity/Property/Toxicity Relationships through Conceptual Density Functional Theory-Based Reactivity Descriptors 2017 , 1517-1572		3
162	A computational study on structure, stability and bonding in Noble Gas bound metal Nitrates, Sulfates and Carbonates (Metal = Cu, Ag, Au). <i>Journal of Chemical Sciences</i> , 2016 , 128, 1537-1548	1.8	23
161	Noble gas bound beryllium chromate and beryllium hydrogen phosphate: a comparison with noble gas bound beryllium oxide. <i>RSC Advances</i> , 2016 , 6, 92786-92794	3.7	15
160	Sequestration and Activation of Small Gas Molecules on BN-Flakes and the Effect of Various Metal Oxide Molecules therein. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27782-27799	3.8	6
159	Noble Gas Binding Ability of Metal-Bipyridine Monocationic Complexes (Metal=Cu, Ag, Au): A Computational Study. <i>ChemistrySelect</i> , 2016 , 1, 5842-5849	1.8	16
158	Encapsulation of small gas molecules and rare gas atoms inside the octa acid cavitand. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	24
157	Optical response and gas sequestration properties of metal cluster supported graphene nanoflakes. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18811-27	3.6	21
156	Selectivity in Gas Adsorption by Molecular Cucurbit[6]uril. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13911-13921	3.8	35
155	How strong are the metallocene-metallocene interactions? Cases of ferrocene, ruthenocene, and osmocene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 550-6	3.6	28
154	Structure and bonding of IrB ₁₂ converting a rigid boron B ₁₂ platelet to a Wankel motor. <i>RSC Advances</i> , 2016 , 6, 27177-27182	3.7	56
153	Viability of aromatic all-pnictogen anions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11738-45	3.6	3

152	E 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. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11661-76	3.6	41
151	Statistical Significance of the Maximum Hardness Principle Applied to Some Selected Chemical Reactions. <i>Molecules</i> , 2016 , 21,	4.8	6
150	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	2.1	22
149	Structure and stability of noble gas bound EX ₃ ⁺ compounds (E = C, Ge, Sn, Pb; X = H, F, Cl, Br). <i>Journal of Computational Chemistry</i> , 2016 , 37, 226-36	3.5	25
148	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	2.1	6
147	Possible sequestration of polar gas molecules by superhalogen supported aluminum nitride nanoflakes. <i>Journal of Molecular Modeling</i> , 2016 , 22, 271	2	3
146	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	6.2	67
145	Structure, stability, and nature of bonding in carbon monoxide bound EX ₃ ⁺ complexes (E = group 14 element; X = H, F, Cl, Br, I). <i>Journal of Computational Chemistry</i> , 2016 , 37, 2202-11	3.5	13
144	Noble gas supported B ₃ ⁺ cluster: formation of strong covalent noble gas-boron bonds. <i>RSC Advances</i> , 2016 , 6, 78611-78620	3.7	26
143	Scaling properties of information-theoretic quantities in density functional reactivity theory. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4977-88	3.6	59
142	In quest of a superhalogen supported covalent bond involving a noble gas atom. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 3064-74	2.8	17
141	Interaction of BN- and BP-doped graphene nanoflakes with some representative neutral molecules and anions. <i>Molecular Physics</i> , 2015 , 113, 2916-2929	1.7	
140	Reactivity dynamics of a confined molecule in presence of an external magnetic field. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 144-157	2.1	18
139	Exploring the nature of silicon-noble gas bonds in H ₃ SiNgNSi and HSiNgNSi compounds (Ng = Xe, Rn). <i>International Journal of Molecular Sciences</i> , 2015 , 16, 6402-18	6.3	29
138	On the stability of noble gas bound 1-tris(pyrazolyl)borate beryllium and magnesium complexes. <i>New Journal of Chemistry</i> , 2015 , 39, 6778-6786	3.6	23
137	A coupled-cluster study on the noble gas binding ability of metal cyanides versus metal halides (metal = Cu, Ag, Au). <i>Journal of Computational Chemistry</i> , 2015 , 36, 2168-76	3.5	34
136	Hydrogen trapping potential of (HF) _m (m=1-8) and (H ₂ O) _n (n=1-10) clusters. <i>Computational and Theoretical Chemistry</i> , 2015 , 1071, 18-26	2	3
135	Analyzing torquoselectivity in electrocyclic ring opening reactions of trans-3,4-dimethylcyclobutene and 3-formylcyclobutene through electronic structure principles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23104-11	3.6	12

134	Metastable behavior of noble gas inserted tin and lead fluorides. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 972-82	3.6	45
133	Dynamical behavior of Borospherene: A Nanobubble. <i>Scientific Reports</i> , 2015 , 5, 11287	4.9	70
132	Fermi accelerator: A new insight from quantum theory of motion. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 1733-1738	2.1	3
131	Three-dimensional networks containing rectangular Sr ₄ and Ba ₄ units: Synthesis, structure, bonding, and potential application for Ne gas separation. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 1501-1510	2.1	6
130	Comparative Study on the Noble-Gas Binding Ability of BeX Clusters (X = SO ₄ , CO ₃ , O). <i>Journal of Physical Chemistry A</i> , 2015 , 119, 6746-52	2.8	39
129	Orbital free DFT versus single density equation: a perspective through quantum domain behavior of a classically chaotic system. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31516-29	3.6	7
128	Quantitative Structure-Activity/Property/Toxicity Relationships through Conceptual Density Functional Theory-Based Reactivity Descriptors. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2015 , 123-179	0.2	
127	Cucurbit[6]uril: A Possible Host for Noble Gas Atoms. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10962-74	3.4	41
126	Confinement induced binding in noble gas atoms within a BN-doped carbon nanotube. <i>Chemical Physics Letters</i> , 2015 , 621, 29-34	2.5	26
125	Unique bonding pattern and resulting bond stretch isomerism in. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 426-433	2.1	8
124	Reactivity dynamics of confined atoms in the presence of an external magnetic field. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	17
123	DFT study on the ground state and excited state intramolecular proton transfer of propargyl arm containing Schiff bases in solution and gas phases. <i>Computational and Theoretical Chemistry</i> , 2014 , 1028, 19-26	2	16
122	Confinement of (HF) ₂ in C _n (n = 60, 70, 80, 90) cages. <i>Chemical Physics Letters</i> , 2014 , 616-617, 49-54	2.5	10
121	Gas storage potential of ExBox [®] and its Li-decorated derivative. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21964-79	3.6	10
120	Noble gas encapsulation: clathrate hydrates and their HF doped analogues. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17943-54	3.6	18
119	Metal (copper) segregation in magmas. <i>Lithos</i> , 2014 , 208-209, 462-470	2.9	8
118	B18(2-): a quasi-planar bowl member of the Wankel motor family. <i>Chemical Communications</i> , 2014 , 50, 8140-3	5.8	98
117	In quest of strong Be-Ng bonds among the neutral Ng-Be complexes. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 487-94	2.8	57

116	Stability of noble-gas-bound SiH _n clusters. <i>ChemPhysChem</i> , 2014 , 15, 3554-64	3.2	29
115	The inorganic analogues of carbo-benzene. <i>Chemical Physics Letters</i> , 2014 , 610-611, 209-212	2.5	8
114	Confinement induced binding of noble gas atoms. <i>Journal of Chemical Physics</i> , 2014 , 140, 164306	3.9	48
113	Chemical reactivity through structure-stability landscape. <i>International Journal of Quantum Chemistry</i> , 2014 , 114, 1421-1429	2.1	5
112	Movement of Ng ₂ molecules confined in a C ₆₀ cage: An ab initio molecular dynamics study. <i>Chemical Physics Letters</i> , 2014 , 610-611, 351-356	2.5	31
111	Stability and structural dynamics of Be ₃₂ - clusters. <i>Chemical Physics Letters</i> , 2014 , 593, 128-131	2.5	10
110	Carbo-cages: a computational study. <i>Journal of Organic Chemistry</i> , 2014 , 79, 5463-70	4.2	12
109	Quantum equivalence of a driven triple-well Van der Pol oscillator: A QTM study. <i>Chemical Physics</i> , 2014 , 438, 7-15	2.3	6
108	Host-guest interactions in ExBox4+. <i>ChemPhysChem</i> , 2014 , 15, 4108-16	3.2	15
107	Bohmian trajectory from the "classical" Schrödinger equation. <i>Chaos</i> , 2014 , 24, 043123	3.3	6
106	Ab initio study on the stability of Ng(n)Be _n Ng(n)Be _n and NgBeSiN ₂ clusters. <i>ChemPhysChem</i> , 2014 , 15, 2618-25	3.2	30
105	Guest-host interaction in an aza crown analog. <i>International Journal of Quantum Chemistry</i> , 2014 , 114, 708-719	2.1	5
104	Attractive Xe-Li interaction in Li-decorated clusters. <i>Computational and Theoretical Chemistry</i> , 2013 , 1021, 62-69	2	24
103	Methane hydrates and their HF doped analogues. <i>Chemical Physics Letters</i> , 2013 , 578, 110-114	2.5	5
102	Cucurbiturils as promising hydrogen storage materials: a case study of cucurbit[7]uril. <i>New Journal of Chemistry</i> , 2013 , 37, 2492	3.6	29
101	A one-pot Garratt-Braverman cyclization and Scholl oxidation route to acene-helicene hybrids. <i>RSC Advances</i> , 2013 , 3, 19844	3.7	16
100	Concurrent loss of aromaticity and onset of superexchange in Mg ₃ Na ₂ with an increasing Na-Mg ₃ distance. <i>Theoretical Chemistry Accounts</i> , 2013 , 132, 1	1.9	5
99	Redox and Lewis acid-base activities through an electronegativity-hardness landscape diagram. <i>Journal of Molecular Modeling</i> , 2013 , 19, 4857-64	2	11

98	C5Li7(+) and O2Li5(+) as noble-gas-trapping agents. <i>Chemistry - A European Journal</i> , 2013 , 19, 2322-9	4.8	43
97	Effect of microsolvation on hydrogen trapping potential of metal ions. <i>Chemical Physics</i> , 2013 , 415, 256-268	3.8	2
96	Molecular reactivity dynamics in a confined environment. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5588-614	3.6	10
95	Biological Activity and Toxicity: A Conceptual DFT Approach. <i>Structure and Bonding</i> , 2013 , 143-179	0.9	19
94	Possibility of Having HF-Doped Hydrogen Hydrates. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11625-11634	3.4	11
93	Density dynamics in some quantum systems. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 1747-1776	1.1	17
92	Local hardness equalization and the principle of maximum hardness. <i>Journal of Chemical Physics</i> , 2013 , 138, 214103	3.9	16
91	On the validity of the maximum hardness principle and the minimum electrophilicity principle during chemical reactions. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1843-52	2.8	121
90	Structure and stability of (NG) _n CN ₃ Be ₃ (+) clusters and comparison with (NG)BeY(0/+). <i>ChemPhysChem</i> , 2013 , 14, 2511-7	3.2	33
89	Electrophilicity kernel and its hierarchy through softness in conceptual density functional theory. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 2163-2171	2.1	13
88	3D-QSAR studies on the inhibitory activity of trimethoprim analogues against Escherichia coli dihydrofolate reductase. <i>Chemical Biology and Drug Design</i> , 2012 , 79, 935-42	2.9	5
87	A computational study on the hydrogen adsorption capacity of various lithium-doped boron hydrides. <i>Journal of Computational Chemistry</i> , 2012 , 33, 425-34	3.5	29
86	Structure-stability diagrams and stability-reactivity landscapes: a conceptual DFT study. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	7
85	Heterotrimetallic compounds containing Mo-M-Li [M = K, Rb and Cs] clusters: synthesis, structure, bonding, aromaticity and theoretical investigations of Li ₂ M ₂ [M = K and Rb] and Cs ₄ rings. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15579-92	3.6	11
84	Pyrrole-based new diphosphines: Pd and Ni complexes bearing the PNP pincer ligand. <i>Inorganic Chemistry</i> , 2012 , 51, 12527-39	5.1	51
83	A tug-of-war between electronic excitation and confinement in a dynamical context. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 1716-27	3.6	31
82	A (T-P) phase diagram of hydrogen storage on (N ₄ C ₃ H) ₆ Li ₆ . <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3259-66	2.8	29
81	Some novel molecular frameworks involving representative elements. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14784-802	3.6	7

80	Understanding local electrophilicity/nucleophilicity activation through a single reactivity difference index. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 2855-61	3.9	46
79	An Understanding of the Origin of Chemical Reactivity from a Conceptual DFT Approach 2012 , 157-201		5
78	The hydrogen trapping potential of some Li-doped star-like clusters and super-alkali systems. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10345-50	3.6	59
77	Toward analyzing some neutral and cationic boron-lithium clusters (B_xLi_y $x = 2B$; $y = 1, 2$) as effective hydrogen storage materials: A conceptual density functional study. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 695-702	2.1	18
76	Comment on "Ruling out any electrophilicity equalization principle". <i>Journal of Physical Chemistry A</i> , 2012 , 116, 790-1; discussion 792-5	2.8	14
75	The Woodward-Hoffmann rules reinterpreted by conceptual density functional theory. <i>Accounts of Chemical Research</i> , 2012 , 45, 683-95	24.3	119
74	Fitness landscapes in natural rocks system evolution: A conceptual DFT treatment#. <i>Journal of Chemical Sciences</i> , 2012 , 124, 29-34	1.8	6
73	Pd(II)-heterocyclic carbene complexes of 2,6-bis{N-methyl-(imidazolium/benzimidazolium)}pyrazinechloride: Synthesis, structure, catalysis and theoretical studies. <i>Inorganica Chimica Acta</i> , 2012 , 383, 83-90	2.7	19
72	Analysis of the structure, bonding, aromaticity and existence of possible bond-stretch isomerism in trigonal anionic metal clusters, X_3 ($X = Be, Mg, Ca$) 2012 ,		1
71	Structure-stability diagrams and stability-reactivity landscapes: a conceptual DFT study. <i>Highlights in Theoretical Chemistry</i> , 2012 , 23-30		
70	Hydrogen storage in clathrate hydrates. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 187-93	2.8	99
69	Role of aromaticity and charge of a system in its hydrogen trapping potential and vice versa. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20602-14	3.6	20
68	Synthesis, structure and theoretical studies of Hg(II)-NHC carbene complex of annulated ligand pyridinyl[1,2-a]{2-pyridylimidazol}-3-ylidene hexafluorophosphate. <i>Inorganica Chimica Acta</i> , 2011 , 375, 271-279	2.7	29
67	Update 2 of: electrophilicity index. <i>Chemical Reviews</i> , 2011 , 111, PR43-75	68.1	233
66	Analyzing the efficiency of M_n (C_2H_4) ($M = Sc, Ti, Fe, Ni$; $n = 1, 2$) complexes as effective hydrogen storage materials. <i>Structural Chemistry</i> , 2011 , 22, 823-837	1.8	35
65	Potential use of some metal clusters as hydrogen storage materials--a conceptual DFT approach. <i>Journal of Molecular Modeling</i> , 2011 , 17, 777-84	2	27
64	Net reactivity index (NRI) <i>Journal of Physical Organic Chemistry</i> , 2011 , 24, n/a-n/a	2.1	3
63	Aromaticity in all-metal annular systems: the counter-ion effect. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14865-78	3.6	13

62	Aromaticity and hydrogen storage capability of planar N ₆₄ - and N ₄₂ - rings. <i>Chemical Physics Letters</i> , 2011 , 506, 315-320	2.5	19
61	Stability and aromaticity of nH(2)@B(12)N(12) (n=1-12) clusters. <i>Nano Reviews</i> , 2011 , 2,		15
60	Synthesis and structure of a 3D porous network containing aromatic 1D chains of Li(6) rings: experimental and computational studies. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 10871-7	2.8	14
59	A conceptual density functional study of structure, bonding, reactivity and the possibility of bond-stretch isomerism in some neutral sulfur clusters, S _n (n=3-8). <i>Journal of Sulfur Chemistry</i> , 2010 , 31, 231-246	2.3	11
58	Electrophilicity Equalization Principle. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1064-1067	6.4	44
57	Synthesis, structure and electrochemical behaviour of Ru(II)- and Pt(II)-carbene complexes of the NCN-pincer 1,3-bis(2-pyridylmethyl)-1H-benzimidazolium chloride. <i>New Journal of Chemistry</i> , 2010 , 34, 1974	3.6	47
56	Electron Affinity, Electronegativity, and Electrophilicity of Atoms and Ions. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1882-1886	2.8	31
55	Trapping of noble gases (He, Ar) by the aromatic H ₃ ⁺ and Li ₃ ⁺ species: a conceptual DFT approach. <i>New Journal of Chemistry</i> , 2010 , 34, 1936	3.6	25
54	Bonding, aromaticity, and structure of trigonal dianion metal clusters. <i>Journal of Computational Chemistry</i> , 2010 , 31, 1815-21	3.5	17
53	Catalyst electronic polarizability and enantiomeric excess in asymmetric hydrogenation. <i>Tetrahedron</i> , 2010 , 66, 4560-4563	2.4	12
52	Arsenic toxicity: an atom counting and electrophilicity-based protocol. <i>Molecular Diversity</i> , 2009 , 13, 551-561	3.1	11
51	Electrophilicity index within a conceptual DFT framework. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2009 , 105, 13		143
50	Net electrophilicity. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10068-74	2.8	123
49	Acidity of meta- and para-substituted aromatic acids: a conceptual DFT study. <i>New Journal of Chemistry</i> , 2008 , 32, 1945	3.6	16
48	Aromaticity in cyclic alkali clusters. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2461-74	3.6	23
47	Reactivity, selectivity, and aromaticity of Be ₃ (2-) and its complexes. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1612-21	2.8	53
46	Aromaticity in alkali metal clusters: Role of the metalloligand and the size of the metal ion. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2008 , 7, 395-408	0.3	
45	Bonding and aromaticity in an all-metal sandwich-like compound, . <i>Chemical Physics Letters</i> , 2008 , 460, 382-385	2.5	25

44	Synthesis and structure of 1-D Na ₆ cluster chain with short Na-Na distance: organic like aromaticity in inorganic metal cluster. <i>Chemical Communications</i> , 2007 , 135-7	5.8	28
43	Further links between the maximum hardness principle and the hard/soft acid/base principle: insights from hard/soft exchange reactions. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 3853-6	3.6	77
42	Aromaticity in polyacene analogues of inorganic ring compounds. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 4684-96	2.8	44
41	Local hardness: a critical account. <i>Theoretical Chemistry Accounts</i> , 2007 , 118, 923-930	1.9	80
40	Stability, reactivity, and aromaticity of compounds of a multivalent superatom. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 11116-21	2.8	185
39	Update 1 of: Electrophilicity Index. <i>Chemical Reviews</i> , 2007 , 107, PR46-PR74	68.1	256
38	Comparison between the frozen core and finite differences approximations for the generalized spin-dependent global and local reactivity descriptors in small molecules. <i>Theoretical Chemistry Accounts</i> , 2006 , 115, 257-265	1.9	48
37	Minimum magnetizability principle. <i>Journal of Chemical Physics</i> , 2006 , 125, 056101	3.9	22
36	A possible union of chemical bonding, reactivity, and kinetics. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 11401-3	2.8	26
35	Intermolecular ligand exchange in alkyltin trihalides: Semiempirical and density functional theory calculations. <i>Computational and Theoretical Chemistry</i> , 2006 , 761, 89-95		10
34	Electrophilicity index. <i>Chemical Reviews</i> , 2006 , 106, 2065-91	68.1	1155
33	Substituent effects. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 5602-7	2.8	14
32	Local descriptors around a transition state: a link between chemical bonding and reactivity. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 3771-2	2.8	29
31	Cracking of n-heptane in HZSM-5 zeolite. <i>Computational and Theoretical Chemistry</i> , 2005 , 755, 99-103		4
30	A philicity based analysis of adsorption of small molecules in zeolites. <i>Journal of Chemical Sciences</i> , 2005 , 117, 541-548	1.8	10
29	The maximum hardness principle implies the hard/soft acid/base rule. <i>Journal of Chemical Physics</i> , 2005 , 123, 086101	3.9	88
28	Is the Fukui Function a Right Descriptor of Hard-Hard Interactions?. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2487-2491	2.8	115
27	Towards understanding the molecular internal rotations and vibrations and chemical reactions through the profiles of reactivity and selectivity indices: an ab initio SCF and DFT study. <i>Molecular Physics</i> , 2003 , 101, 2841-2853	1.7	40

26	Philicity: A Unified Treatment of Chemical Reactivity and Selectivity. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 4973-4975	2.8	555
25	HSAB principle applied to the time evolution of chemical reactions. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2705-10	16.4	142
24	Variation of the Electrophilicity Index along the Reaction Path. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 7068-72	2.8	212
23	Theoretical study of the trans-N ₂ H ₂ -gjs-N ₂ H ₂ and F ₂ S ₂ -gSSF reactions in gas and solution phases.. <i>Computational and Theoretical Chemistry</i> , 2002 , 580, 171-182		23
22	A Density Functional Study of the Claisen Rearrangement of Allyl Aryl Ether, Allyl Arylamine, Allyl Aryl Thio Ether, and a Series of Meta-Substituted Molecules through Reactivity and Selectivity Profiles. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 11227-11233	2.8	40
21	Scrutiny of the HSAB Principle in Some Representative Acid-Base Reactions. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 8815-8820	2.8	32
20	Ab Initio SCF and DFT Studies on Solvent Effects on Intramolecular Rearrangement Reactions. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 4272-4283	2.8	59
19	Atoms-in-molecules partitioning of a molecular density. <i>International Journal of Quantum Chemistry</i> , 2000 , 77, 403-407	2.1	53
18	Molecular Electronic Excitations and the Minimum Polarizability Principle. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 3185-3187	2.8	86
17	Woodward-Hoffmann Rule in the Light of the Principles of Maximum Hardness and Minimum Polarizability: DFT and Ab Initio SCF Studies. <i>Journal of the American Chemical Society</i> , 2000 , 122, 348-351	16.4	80
16	Chemical bonding and reactivity: a local thermodynamic viewpoint. <i>Chemical Physics Letters</i> , 1999 , 314, 114-121	2.5	41
15	Validity of the Minimum Polarizability Principle in Molecular Vibrations and Internal Rotations: An ab Initio SCF Study. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 9307-9312	2.8	112
14	Exchange-correlation potential and excited-state density functional theory. <i>International Journal of Quantum Chemistry</i> , 1996 , 60, 535-543	2.1	16
13	Chemical softness in model electronic systems: dependence on temperature and chemical potential. <i>Chemical Physics</i> , 1996 , 204, 429-437	2.3	42
12	Fukui function from a gradient expansion formula, and estimate of hardness and covalent radius for an atom. <i>Journal of Chemical Physics</i> , 1995 , 103, 10621-10626	3.9	78
11	Appraisal of Chemical Bond Making, Bond Breaking, and Electron Transfer in Solution in the Light of the Principle of Maximum Hardness. <i>Journal of Organic Chemistry</i> , 1995 , 60, 4707-4714	4.2	60
10	Variational method for determining the Fukui function and chemical hardness of an electronic system. <i>Journal of Chemical Physics</i> , 1995 , 103, 7645-7646	3.9	122
9	The maximum hardness principle in the Gyftopoulos-Hatsopoulos three-level model for an atomic or molecular species and its positive and negative ions. <i>Chemical Physics Letters</i> , 1995 , 237, 171-176	2.5	163

8	An ab initio study resulting in a greater understanding of the HSAB principle. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1067-1071	16.4	137
7	Density functional theory of chemical hardness 1993 , 11-25		30
6	Aspects of the Softness and Hardness Concepts of Density-Functional Theory. <i>Israel Journal of Chemistry</i> , 1991 , 31, 395-402	3.4	117
5	HSAB principle. <i>Journal of the American Chemical Society</i> , 1991 , 113, 1855-1856	16.4	502
4	Principle of maximum hardness. <i>Journal of the American Chemical Society</i> , 1991 , 113, 1854-1855	16.4	1025
3	Aromaticity and conceptual density functional theory. <i>Chemical Modelling</i> , 45-98	2	2
2	Possible catalytic activity of N,N-coordinated mono-cationic copper bound Pyrazol-1-yl(1H-pyrrol-2-yl)methanone complex: a computational study. <i>Proceedings of the Indian National Science Academy</i> , 1	1	
1	Small molecule activation and dehydrogenation of an amineBorane system using frustrated Lewis pairs. <i>Structural Chemistry</i> , 1	1.8	0