

Kittusamy Senthilkumar

List of Publications by Year in descending order

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121
papers

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3372
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#	ARTICLE	IF	CITATIONS
1	Coordination Behavior of Acylthiourea Ligands in Their Ru(II) "Benzene Complexes" Structures and Anticancer Activity. <i>Organometallics</i> , 2022, 41, 1621-1630.	2.3	33
2	The influence of the shape and configuration of sensitizer molecules on the efficiency of DSSCs: a theoretical insight. <i>RSC Advances</i> , 2021, 11, 5556-5567.	3.6	7
3	Investigation on surface interaction between graphene nanobuds and cerium(III) via fluorescence excimer, theoretical, real water sample, and bioimaging studies. <i>Materials Chemistry and Physics</i> , 2021, 264, 124453.	4.0	13
4	Crossover from static to dynamic Non-Condon effect on charge Transport in Organic Semiconductors. <i>Journal of Physics: Conference Series</i> , 2021, 1916, 012230.	0.4	0
5	Charge Transport and Optical Absorption Properties of Dibenzocoronene Tetracarboxdiimide Based Liquid Crystalline Molecules: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3852-3862.	2.5	8
6	Room temperature weakly ferromagnetic energy band opened graphene quantum dot coupled solid sheets " A possible carbon based dilute magnetic semiconductor. <i>Applied Surface Science</i> , 2021, 548, 149195.	6.1	4
7	Mechanism, Kinetics, and Ecotoxicity Assessment of \hat{A} -OH-Initiated Oxidation Reactions of Sulfoxaflo. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10052-10064.	2.5	3
8	Modified fullerenes as acceptors in bulk heterojunction organic solar cells " a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27468-27476.	2.8	3
9	First principle studies on the atmospheric oxidation of HFC-C1436 initiated by the OH radical. <i>New Journal of Chemistry</i> , 2020, 44, 2070-2082.	2.8	8
10	A comprehensive quantum chemical study on the mechanism and kinetics of atmospheric reactions of 3-chloro-2-methyl-1-propene with OH radical. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	1.4	0
11	Aggregation induced emission behavior in oleylamine acetone system and its application to get improved photocurrent from In ₂ S ₃ quantum dots. <i>Scientific Reports</i> , 2020, 10, 19712.	3.3	11
12	Unimolecular decomposition of acetyl peroxy radical: a potential source of tropospheric ketene. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26819-26827.	2.8	7
13	Insight into the photophysics of strong dual emission (blue & green) producing graphene quantum dot clusters and their application towards selective and sensitive detection of trace level Fe ³⁺ and Cr ⁶⁺ ions. <i>RSC Advances</i> , 2020, 10, 26613-26630.	3.6	11
14	Adsorption of phenanthroline and its derivatives on Au (111) surface " Influence of substitution on structure and electronic properties. <i>Computational Materials Science</i> , 2020, 182, 109778.	3.0	0
15	Theoretical investigation on the structure and antioxidant activity of (+) catechin and (â) epicatechin " a comparative study. <i>Molecular Physics</i> , 2020, 118, e1745917.	1.7	24
16	Hydrolysis of HNSO ₂ : A potential route for atmospheric production of H ₂ SO ₄ and NH ₃ . <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26182.	2.0	5
17	Mechanism and kinetics of diuron oxidation by hydroxyl radical addition reaction. <i>Environmental Science and Pollution Research</i> , 2020, 27, 12080-12095.	5.3	14
18	Atmospheric oxidation mechanism and kinetics of 2-bromo-4,6-dinitroaniline by OH radicals " a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21109-21127.	2.8	0

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19	Mechanism and Kinetics of Diuron Oxidation Initiated by Hydroxyl Radical: Hydrogen and Chlorine Atom Abstraction Reactions. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8954-8967.	2.5	13
20	Graphene Nanobuds: A New Second-Generation Phosgene Sensor with Ultralow Detection Limit in Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19339-19349.	8.0	27
21	Theoretical study on the gas phase reaction of methyl chavicol with hydroxyl radical. <i>Computational and Theoretical Chemistry</i> , 2019, 1151, 78-90.	2.5	5
22	Effect of site energy fluctuation on charge transport in disordered organic molecules. <i>Journal of Chemical Physics</i> , 2019, 151, 224301.	3.0	9
23	Adsorption of tetracyanoquinodimethane and tetrathiafulvalene on aluminium (100) surface – a first principle study of structural and electronic properties. <i>Molecular Simulation</i> , 2019, 45, 492-500.	2.0	3
24	Mechanism and kinetics of the oxidation of dimethyl carbonate by hydroxyl radical in the atmosphere. <i>Environmental Science and Pollution Research</i> , 2019, 26, 3357-3367.	5.3	3
25	Reaction mechanism and kinetics of the degradation of terbacil initiated by OH radical – A theoretical study. <i>Chemical Physics</i> , 2018, 501, 110-120.	1.9	4
26	Counter anion effect on structural, opto-electronic and charge transport properties of fused π -conjugated imidazolium compound. <i>Molecular Physics</i> , 2018, 116, 1145-1152.	1.7	2
27	Mechanism and kinetics of the reaction of methyl acetate with Cl atom – A theoretical study. <i>Computational and Theoretical Chemistry</i> , 2018, 1131, 40-50.	2.5	4
28	Exploring the mechanisms for the radical induced damage of 6-thioguanine. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25544.	2.0	1
29	Theoretical Investigation on the Mechanism and Kinetics of Atmospheric Reaction of Methylchloroacetate with Hydroxyl Radical. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9316-9325.	2.5	2
30	Atmospheric Oxidation Mechanism and Kinetics of Hydrofluoroethers, CH_3OCF_3 , CH_3OCHF_2 , and $\text{CHF}_2\text{OCH}_2\text{CF}_3$, by OH Radical: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4972-4982.	2.5	12
31	Theoretical probe on modified organic dyes for high-performance dye-sensitised solar cell. <i>Current Applied Physics</i> , 2018, 18, 1071-1079.	2.4	6
32	Opto-electronic and interfacial charge transfer properties of azobenzene dyes on anatase TiO_2 (001) surface – The effect of anchoring group. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 372-381.	3.9	10
33	Conversion of toluene into benzyl radical on anatase TiO_2 (0 0 1) surface. <i>Computational and Theoretical Chemistry</i> , 2017, 1115, 13-21.	2.5	1
34	Mechanism and Kinetics of the Reaction of Nitrosamines with OH Radical: A Theoretical Study. <i>International Journal of Chemical Kinetics</i> , 2017, 49, 339-353.	1.6	14
35	The atmospheric oxidation mechanism and kinetics of 1,3,5-trimethylbenzene initiated by OH radicals – a theoretical study. <i>New Journal of Chemistry</i> , 2017, 41, 10259-10271.	2.8	19
36	Ab Initio QM/MM Modeling of the Rate-Limiting Proton Transfer Step in the Deamination of Tryptamine by Aromatic Amine Dehydrogenase. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9785-9798.	2.6	16

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37	Graphene Quantum Dot Solid Sheets: Strong blue-light-emitting & photocurrent-producing band-gap-opened nanostructures. <i>Scientific Reports</i> , 2017, 7, 10850.	3.3	61
38	Theoretical and experimental evaluation of a new organic proton transfer crystal aminoguanidinium p-nitrobenzoate monohydrate for optical limiting applications. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 82-94.	4.0	31
39	Theoretical Investigations on the Mechanism and Kinetics of OH Radical Initiated Reactions of Monochloroacetic Acid. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6028-6035.	2.5	8
40	A theoretical investigation on the mechanism and kinetics of the gas-phase reaction of naphthalene with OH radical. <i>Theoretical Chemistry Accounts</i> , 2017, 136, 1.	1.4	9
41	Theoretical studies on adsorption of organic molecules on metal surface. , 2017, , 209-241.		0
42	Structural diversity in aroylthiourea copper complexes â€“ formation and biological evaluation of [Cu(η^4 -S)SCl] ₂ , cis-Cu(η^2)S ₂ O ₂ , trans-Cu(η^2)S ₂ O ₂ and Cu(η^3)S ₃ cores. <i>New Journal of Chemistry</i> , 2016, 40, 5401-5413.	2.8	23
43	Dissociation of N ₂ O on anatase TiO ₂ (001) surface â€“ The effect of oxygen vacancy and presence of Ag cluster. <i>Applied Surface Science</i> , 2016, 389, 1220-1232.	6.1	13
44	Atmospheric oxidation mechanism of OH-initiated reactions of diethyl ether â€“ the fate of the 1-ethoxy ethoxy radical. <i>RSC Advances</i> , 2016, 6, 81354-81363.	3.6	7
45	Synthesis, structural characterization, DNA/protein binding and inÂvitro cytotoxicity of three structurally different organoruthenium metallates from single pot. <i>Journal of Organometallic Chemistry</i> , 2016, 825-826, 83-99.	1.8	7
46	N-heterocycles as corrosion inhibitors for mild steel in acid medium. <i>Journal of Molecular Liquids</i> , 2016, 216, 42-52.	4.9	94
47	Adsorption of proline, hydroxyproline and glycine on anatase (001) surface: a first-principle study. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	8
48	Forthâ€“back oscillated charge carrier motion in dynamically disordered hexathienocoronene molecules: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17729-17738.	2.8	8
49	Effect of dynamic disorder on charge carrier dynamics in Ph4DP and Ph4DTP molecules. <i>RSC Advances</i> , 2015, 5, 38722-38732.	3.6	10
50	Adsorption of RGD tripeptide on anatase (001) surface â€“ A first principle study. <i>Computational Materials Science</i> , 2015, 104, 124-129.	3.0	16
51	Ultrasonic, DFT and FT-IR studies on hydrogen bonding interactions in aqueous solutions of diethylene glycol. <i>Journal of Molecular Liquids</i> , 2015, 202, 115-124.	4.9	38
52	Effect of Structural Fluctuations on Charge Carrier Dynamics in Triazene Based Octupolar Molecules. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27754-27762.	3.1	14
53	Structure and spectral properties of l-histidinium dipicrate dihydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 102-111.	3.9	17
54	Structural, optical, and charge transport properties of cyclopentadithiophene derivatives: a theoretical study. <i>Structural Chemistry</i> , 2014, 25, 715-731.	2.0	18

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55	A theoretical study on optical and charge transport properties of anthra-[1,2-b:4,3-b'€²:5,6-b'€³:8,7-b'€]tetrathiophene molecules. <i>Chemical Physics</i> , 2014, 433, 48-59.	1.9	14
56	Adsorption of perfluoropentacene on aluminum (100) surface: Structural and electronic properties from first principle study. <i>Computational Materials Science</i> , 2014, 89, 216-223.	3.0	2
57	Charge transport and optical properties of cross-conjugated organic molecules: A theoretical study. <i>Organic Electronics</i> , 2014, 15, 1607-1623.	2.6	15
58	Triazolyl-donorâ€“acceptor chromophore-decorated unnatural amino acids and peptides: FRET events in a β -turn conformation. <i>Chemical Communications</i> , 2014, 50, 433-435.	4.1	17
59	Theoretical studies on the quinoidal thiophene based dyes for dye sensitized solar cell and NLO applications. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21496-21505.	2.8	30
60	Reaction mechanism and kinetics of the degradation of bromoxynil initiated by OH radical. <i>RSC Advances</i> , 2014, 4, 7749.	3.6	7
61	Oxidation and Nitration of Tyrosine by Ozone and Nitrogen Dioxide: Reaction Mechanisms and Biological and Atmospheric Implications. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3479-3490.	2.6	23
62	Theoretical studies on charge transport and optical properties of tris(N-saclicylideneanilines). <i>RSC Advances</i> , 2014, 4, 25969.	3.6	8
63	Mechanism and kinetics of the atmospheric degradation of perfluoropolymethylisopropyl ether by OH radical: a theoretical study. <i>Structural Chemistry</i> , 2014, 25, 1773-1783.	2.0	3
64	A theoretical probe on the non-covalent interactions of sulfadoxine drug with pi-acceptors. <i>Journal of Molecular Structure</i> , 2014, 1074, 157-167.	3.6	6
65	Depletion of atmospheric ozone by nitrogen dioxide: a bifurcated reaction pathway. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	1.4	7
66	Structural properties and the effect of platinum drugs with DNA base pairs. <i>Structural Chemistry</i> , 2013, 24, 583-595.	2.0	13
67	Effect of structural fluctuations on charge carrier mobility in thiophene, thiazole and thiazolothiazole based oligomers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17947.	2.8	32
68	Theoretical and experimental studies on the structure and spectroscopic properties of Ni(II) complexes of the type [Ni(L)(PPh ₃)] [H ₂ L=5-methyl-N-(2-mercaptophenyl)salicylideneimine and 5-chloro-N-(2-mercaptophenyl)salicylideneimine]. <i>Journal of Molecular Structure</i> , 2013, 1037, 367-375.	3.6	8
69	Wurtzite ZnSe quantum dots: synthesis, characterization and PL properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 692-696.	2.2	22
70	Mechanism and Kinetics of the Atmospheric Oxidative Degradation of Dimethylphenol Isomers Initiated by OH Radical. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4611-4626.	2.5	26
71	Opto-electronic properties of low band gap fused-ring thieno[3,4-b]pyrazine analogues â€“ A theoretical study. <i>Molecular Physics</i> , 2013, 111, 3036-3046.	1.7	5
72	A theoretical study of structural and electronic properties of pentacene/Al(1 0 0) interface. <i>Journal of Molecular Graphics and Modelling</i> , 2012, 38, 334-341.	2.4	10

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73	Synthesis and characterization studies of ZnSe quantum dots. Journal of Materials Science: Materials in Electronics, 2012, 23, 2048-2052.	2.2	25
74	Understanding the absorption and emission spectra of borondipyromethene dye and its substituted analogues. Molecular Physics, 2012, 110, 445-456.	1.7	11
75	Copper Ion Mediated Selective Cleavage of C-S Bond in Ferrocenylthiosemicarbazone Forming Mixed Geometrical [(PPh ₃) ₃ Cu(I ^{1/4} -S) ₂ Cu(PPh ₃) ₃] ₂ Having Cu ₂ S ₂ Core: Toward a New Avenue in Copper-Sulfur Chemistry. Inorganic Chemistry, 2012, 51, 3525-3532.	4.0	29
76	Reaction mechanism and kinetics of the atmospheric oxidation of 1,4-thioxane by NO ₃ — A theoretical study. Canadian Journal of Chemistry, 2012, 90, 384-394.	1.1	6
77	Theoretical studies on the reaction mechanism and kinetics of the atmospheric reactions of 1,4-thioxane with OH radical. Structural Chemistry, 2012, 23, 1475-1488.	2.0	25
78	Low temperature method for synthesis of starch-capped ZnSe nanoparticles and its characterization studies. Journal of Applied Physics, 2012, 112, 114331.	2.5	7
79	Charge transport and optical properties of discotic liquid crystalline molecules THDDP and substituted THDP. International Journal of Quantum Chemistry, 2012, 112, 713-723.	2.0	6
80	Mechanism and kinetics of the reaction of 1,4-thioxane with O ₃ in the atmosphere — A theoretical study. Chemical Physics Letters, 2012, 525-526, 153-159.	2.6	8
81	Theoretical investigation of interaction between psoralen and altretamine with stacked DNA base pairs. Materials Science and Engineering C, 2012, 32, 423-431.	7.3	25
82	Structural and Spectral Properties of 4-Bromo-1-naphthyl Chalcones: A Quantum Chemical Study. Journal of Physical Chemistry A, 2011, 115, 6594-6602.	2.5	36
83	Optical Absorption and Emission Properties of Fluoranthene, Benzo[r]fluoranthene, and Their Derivatives. A DFT Study. Journal of Physical Chemistry A, 2011, 115, 14647-14656.	2.5	41
84	Hydrogen-bonding studies of amino acid side-chains with DNA base pairs. Molecular Physics, 2011, 109, 1995-2008.	1.7	10
85	Structural properties and the effect of interaction of alkali (Li+, Na+, K+) and alkaline earth (Be ²⁺ , Tl) ETQq1 1 0.784314 rgBT /Overlo 57-65.	2.5	11
86	Long-range charge transfer in donor-peptide bridge-acceptor model systems—A theoretical study. International Journal of Quantum Chemistry, 2011, 111, 3904-3914.	2.0	2
87	Structural properties and the effect of 2,6-diaminoanthraquinone on tetrad, non-tetrads, and mixed tetrads—A density functional theory study. International Journal of Quantum Chemistry, 2011, 111, 3239-3250.	2.0	8
88	A theoretical study on decomposition and rearrangement reaction mechanism of trichloroacetyl chloride (CCl ₃ COCl). International Journal of Quantum Chemistry, 2011, 111, 3482-3496.	2.0	5
89	Copper(I) hydrazone complexes: Synthesis, structure, DNA binding, radical scavenging and computational studies. Inorganic Chemistry Communication, 2011, 14, 1318-1322.	3.9	53
90	Hydrogen bond interactions in hydrated acetylsalicylic acid. Computational and Theoretical Chemistry, 2011, 966, 167-179.	2.5	10

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91	First and second coordination spheres in 8-azaxanthinato salts of divalent metal aquacomplexes – Ab initio and DFT study. <i>Polyhedron</i> , 2011, 30, 1431-1445.	2.2	8
92	Reaction mechanism of cysteine proteases model compound HSH with diketone inhibitor $\text{PhCOCOCH}_3\text{X}$, (X = F, Cl, n = 0, 1, 2). <i>International Journal of Quantum Chemistry</i> , 2010, 110, 1660-1674.	2.0	12
93	FOBEZ-256 (A hashing function using Bezier curve). , 2010, , .		0
94	Tautomerization and solvent effects on the absorption and emission properties of the Schiff base N,N^2 -bis(salicylidene)- <i>p</i> -phenylenediamine – A TDDFT study. <i>Molecular Physics</i> , 2010, 108, 1817-1827.	1.7	18
95	Absorption and emission properties of phenylene ethynylene oligomers: effect of substitution and π -conjugation length. <i>Molecular Physics</i> , 2009, 107, 1629-1639.	1.7	17
96	Calculation of ionization potential and chemical hardness: A comparative study of different methods. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 764-771.	2.0	59
97	Effect of conformational degrees of freedom on the charge transfer in model tripeptide. <i>Journal of Molecular Graphics and Modelling</i> , 2009, 27, 784-791.	2.4	6
98	Lennard–Jones Parameters for B3LYP/CHARMM27 QM/MM Modeling of Nucleic Acid Bases. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 396-410.	5.3	17
99	Interactions of anticancer drugs with usual and mismatch base pairs – Density functional theory studies. <i>Biophysical Chemistry</i> , 2008, 136, 50-58.	2.8	26
100	Analysis of polarization in QM/MM modelling of biologically relevant hydrogen bonds. <i>Journal of the Royal Society Interface</i> , 2008, 5, 207-216.	3.4	49
101	Post Hartree–Fock and density functional theory studies on Di-Protonated Allopurinol ²⁺ . <i>Computational and Theoretical Chemistry</i> , 2007, 810, 25-30.	1.5	2
102	Theoretical investigation on intramolecular electron transfer in polypeptides. <i>Chemical Physics Letters</i> , 2007, 440, 302-307.	2.6	7
103	Charge Transfer in Polypeptides: Effect of Secondary Structures on Charge-Transfer Integral and Site Energies. <i>Journal of Physical Chemistry A</i> , 2006, 110, 11551-11556.	2.5	15
104	Two-Dimensional Charge Delocalization in X-Shaped Phenylenevinylene Oligomers. <i>Chemistry of Materials</i> , 2006, 18, 2118-2129.	6.7	23
105	Effect of substitution of electron-donating and -withdrawing groups on the stability of flavin–diaminepyridine complexes – a density functional theory study. <i>Computational and Theoretical Chemistry</i> , 2006, 758, 107-112.	1.5	12
106	Absolute Rates of Hole Transfer in DNA. <i>Journal of the American Chemical Society</i> , 2005, 127, 14894-14903.	13.7	325
107	Charge Transport in Self-Organized π -Stacks of <i>p</i> -Phenylene Vinylene Oligomers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18267-18274.	2.6	90
108	Charge Transport Properties in Discotic Liquid Crystals: A Quantum-Chemical Insight into Structure–Property Relationships. <i>Journal of the American Chemical Society</i> , 2004, 126, 3271-3279.	13.7	464

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109	A quantitative study of the charge-transfer between conjugated thiophene rings in vibrationally excited states. <i>Physica B: Condensed Matter</i> , 2004, 350, 220-223.	2.7	7
110	Structure, conformation and NMR studies on 1,2-dioxane and halogen substituted 1,2-dioxane molecules. <i>Computational Biology and Chemistry</i> , 2003, 27, 173-183.	2.3	13
111	Charge transport in columnar stacked triphenylenes: Effects of conformational fluctuations on charge transfer integrals and site energies. <i>Journal of Chemical Physics</i> , 2003, 119, 9809-9817.	3.0	395
112	Mapping the Sites for Selective Oxidation of Guanines in DNA. <i>Journal of the American Chemical Society</i> , 2003, 125, 13658-13659.	13.7	97
113	Hartree-Fock and density functional theory studies on ionization and fragmentation of halomethane molecules by positron impact. <i>Molecular Physics</i> , 2002, 100, 3817-3822.	1.7	12
114	Molecular structure, conformational stability and cis effect of 1,4-dichlorobutadiene – a quantum chemical study. <i>Computational and Theoretical Chemistry</i> , 2002, 577, 69-79.	1.5	1
115	Origin of the cis effect – nonbonded intramolecular interactions: quantum chemical studies on 1,2-dihaloethylene molecules. <i>Computational and Theoretical Chemistry</i> , 2002, 589-590, 95-102.	1.5	18
116	Post Hartree-Fock and density functional theory studies on structure and conformational stability of nitrosoethylene and substituted compounds of nitrosoethylene. <i>Computers & Chemistry</i> , 2002, 26, 207-221.	1.2	20
117	Quantum chemical studies on tautomerism of barbituric acid in gas phase and in solution. <i>Journal of Computer-Aided Molecular Design</i> , 2002, 16, 263-272.	2.9	47
118	Studies of chemical hardness and Fukui function using the exact solution of the density functional theory. <i>International Journal of Quantum Chemistry</i> , 2001, 81, 4-10.	2.0	5
119	Ab initio and DFT studies on structure and stability of aliphatic aldoxime molecules. <i>Computational and Theoretical Chemistry</i> , 2001, 535, 61-70.	1.5	33
120	Study of chemical bonding in H ₂ and HF molecules: Wave function and density functional theory (DFT) parameters approach. <i>International Journal of Quantum Chemistry</i> , 2000, 76, 662-669.	2.0	6
121	Simultaneous Reduction of NO _x and Soot Using Early Post Injection. , 0, , .		8