

Mihai V Putz

List of Publications by Year in descending order

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137
papers

1,768
citations

236612

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360668

35
g-index

142
all docs

142
docs citations

142
times ranked

1201
citing authors

#	ARTICLE	IF	CITATIONS
1	About the Mulliken electronegativity in DFT. <i>Theoretical Chemistry Accounts</i> , 2005, 114, 38-45.	0.5	104
2	Atomic Radii Scale and Related Size Properties from Density Functional Electronegativity Formulation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5461-5465.	1.1	65
3	Spectral Inverse Quantum (Spectral-IQ) Method for Modeling Mesoporous Systems: Application on Silica Films by FTIR. <i>International Journal of Molecular Sciences</i> , 2012, 13, 15925-15941.	1.8	57
4	On the applicability of the HSAB principle through the use of improved computational schemes for chemical hardness evaluation. <i>Journal of Computational Chemistry</i> , 2004, 25, 994-1003.	1.5	56
5	The Bondons: The Quantum Particles of the Chemical Bond. <i>International Journal of Molecular Sciences</i> , 2010, 11, 4227-4256.	1.8	56
6	Systematic formulations for electronegativity and hardness and their atomic scales within density functional softness theory. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 361-389.	1.0	54
7	A Spectral-SAR Model for the Anionic-Cationic Interaction in Ionic Liquids: Application to <i>Vibrio fischeri</i> Ecotoxicity. <i>International Journal of Molecular Sciences</i> , 2007, 8, 842-863.	1.8	50
8	Density Functionals of Chemical Bonding. <i>International Journal of Molecular Sciences</i> , 2008, 9, 1050-1095.	1.8	49
9	Linear and Branched PEIs (Polyethylenimines) and Their Property Space. <i>International Journal of Molecular Sciences</i> , 2016, 17, 555.	1.8	49
10	Introducing Spectral Structure Activity Relationship (S-SAR) Analysis. Application to Ecotoxicology. <i>International Journal of Molecular Sciences</i> , 2007, 8, 363-391.	1.8	44
11	Topological Anisotropy of Stone-Wales Waves in Graphenic Fragments. <i>International Journal of Molecular Sciences</i> , 2011, 12, 7934-7949.	1.8	38
12	Bondonic characterization of extended nanosystems: Application to graphene's nanoribbons. <i>Chemical Physics Letters</i> , 2012, 548, 95-100.	1.2	37
13	Electronegativity and Chemical Hardness: Different Patterns in Quantum Chemistry. <i>Current Physical Chemistry</i> , 2011, 1, 111-139.	0.1	36
14	Markovian approach of the electron localization functions. <i>International Journal of Quantum Chemistry</i> , 2005, 105, 1-11.	1.0	35
15	Electronegativity: Quantum observable. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 733-738.	1.0	35
16	Chemical action and chemical bonding. <i>Computational and Theoretical Chemistry</i> , 2009, 900, 64-70.	1.5	32
17	Alert-QSAR. Implications for Electrophilic Theory of Chemical Carcinogenesis. <i>International Journal of Molecular Sciences</i> , 2011, 12, 5098-5134.	1.8	32
18	Path Integrals for Electronic Densities, Reactivity Indices, and Localization Functions in Quantum Systems. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4816-4940.	1.8	31

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19	Determining Chemical Reactivity Driving Biological Activity from SMILES Transformations: The Bonding Mechanism of Anti-HIV Pyrimidines. <i>Molecules</i> , 2013, 18, 9061-9116.	1.7	31
20	Bondonic Effects in Group-IV Honeycomb Nanoribbons with Stone-Wales Topological Defects. <i>Molecules</i> , 2014, 19, 4157-4188.	1.7	31
21	New Link between Conceptual Density Functional Theory and Electron Delocalization. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12459-12462.	1.1	30
22	Effect of the Polysaccharide Extract from the Edible Mushroom <i>Pleurotus ostreatus</i> against Infectious Bursal Disease Virus. <i>International Journal of Molecular Sciences</i> , 2009, 10, 3616-3634.	1.8	29
23	Quantum-SAR Extension of the Spectral-SAR Algorithm. Application to Polyphenolic Anticancer Bioactivity. <i>International Journal of Molecular Sciences</i> , 2009, 10, 1193-1214.	1.8	29
24	Chemical Structure-Biological Activity Models for Pharmacophores' 3D-Interactions. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1087.	1.8	29
25	SEMICLASSICAL ELECTRONEGATIVITY AND CHEMICAL HARDNESS. <i>Journal of Theoretical and Computational Chemistry</i> , 2007, 06, 33-47.	1.8	28
26	K ⁺ In-Timi ⁺ oara Molecular Activity Combined Models toward Interspecies Toxicity Assessment. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4474-4497.	1.8	27
27	Full Analytic Progress Curves of Enzymic Reactions in Vitro. <i>International Journal of Molecular Sciences</i> , 2006, 7, 469-484.	1.8	26
28	Variational principles for mechanistic quantitative structure-activity relationship (QSAR) studies: application on uracil derivatives' anti-HIV action. <i>Structural Chemistry</i> , 2013, 24, 1873-1893.	1.0	26
29	Parabolic Reactivity -Coloring-Molecular Topology: Application to Carcinogenic PAHs. <i>Current Organic Chemistry</i> , 2013, 17, 2816-2830.	0.9	24
30	Compactness Aromaticity of Atoms in Molecules. <i>International Journal of Molecular Sciences</i> , 2010, 11, 1269-1310.	1.8	23
31	Learning the Relationship between the Primary Structure of HIV Envelope Glycoproteins and Neutralization Activity of Particular Antibodies by Using Artificial Neural Networks. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1710.	1.8	21
32	Koopmans' Analysis of Chemical Hardness with Spectral-Like Resolution. <i>Scientific World Journal</i> , The, 2013, 2013, 1-14.	0.8	19
33	Variational perturbation theory for Markov processes. <i>Physical Review E</i> , 2002, 65, 066128.	0.8	18
34	On electronegativity and chemical hardness relationships with aromaticity. <i>Journal of Mathematical Chemistry</i> , 2010, 47, 487-495.	0.7	17
35	Residual-QSAR. Implications for genotoxic carcinogenesis. <i>Chemistry Central Journal</i> , 2011, 5, 29.	2.6	17
36	Predicting bondons by $\langle \text{scp} \rangle \text{G} \langle \text{scp} \rangle$ oldstone mechanism with chemical topological indices. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 137-143.	1.0	17

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37	Electrophilicity kernel and its hierarchy through softness in conceptual density functional theory. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 2163-2171.	1.0	16
38	Isomeric Formation of 5 8 5 Defects in Graphenic Systems. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 887-900.	1.0	16
39	Design of Anti-HIV Ligands by Means of Minimal Topological Difference (MTD) Method. <i>International Journal of Molecular Sciences</i> , 2006, 7, 537-555.	1.8	15
40	Density Functional Theory of Bose-Einstein Condensation: Road to Chemical Bonding Quantum Condensate. <i>Structure and Bonding</i> , 2012, , 1-49.	1.0	15
41	Topological Organic Chemistry: From Distance Matrix to Timisoara Eccentricity. <i>Current Organic Chemistry</i> , 2015, 19, 249-273.	0.9	15
42	A new route to graphene starting from heavily ozonized fullerenes: Part 1 thermal reduction under inert atmosphere. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 52-61.	1.0	14
43	DFT Chemical Reactivity Driven by Biological Activity: Applications for the Toxicological Fate of Chlorinated PAHs. <i>Structure and Bonding</i> , 2013, , 181-231.	1.0	13
44	Cooperative topological accumulation of vacancies in honeycomb lattices. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 353-362.	1.0	13
45	On Heisenberg Uncertainty Relationship, Its Extension, and the Quantum Issue of Wave-Particle Duality. <i>International Journal of Molecular Sciences</i> , 2010, 11, 4124-4139.	1.8	12
46	A new route to graphene starting from heavily ozonized fullerenes: Part 3 an electron spin resonance study. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 195-201.	1.0	12
47	Quantitative structure-activity/ecotoxicity relationships (QSAR/QEcoSAR) of a series of phosphonates. <i>Environmental Toxicology and Pharmacology</i> , 2015, 40, 800-824.	2.0	11
48	Noble gas endohedral fullerenes, Ng@C60 (Ng=Ar, Kr): a particular benchmark for assessing the account of non-covalent interactions by density functional theory calculations. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	11
49	A new route to graphene starting from heavily ozonized fullerenes: Part 2 oxidation in air. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 62-66.	1.0	11
50	Molecular Graph Theory: From Adjacency Information to Colored Topology by Chemical Reactivity. <i>Current Organic Chemistry</i> , 2015, 19, 359-386.	0.9	11
51	On the Reducible Character of Haldane-Radi-Enzyme Kinetics to Conventional and Logistic Michaelis-Menten Models. <i>Molecules</i> , 2011, 16, 3128-3145.	1.7	10
52	Structure Properties and Chemical-Bio/Ecological of PAH Interactions: From Synthesis to Cosmic Spectral Lines, Nanochemistry, and Lipophilicity-Driven Reactivity. <i>Current Organic Chemistry</i> , 2013, 17, 2845-2871.	0.9	10
53	Topological Invariants of Nanocones and Fullerenes. <i>Current Organic Chemistry</i> , 2015, 19, 240-248.	0.9	10
54	Introducing Catastrophe-QSAR. Application on Modeling Molecular Mechanisms of Pyridinone Derivative-Type HIV Non-Nucleoside Reverse Transcriptase Inhibitors. <i>International Journal of Molecular Sciences</i> , 2011, 12, 9533-9569.	1.8	9

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55	Molecular Dynamic Studies of the Complex Polyethylenimine and Glucose Oxidase. International Journal of Molecular Sciences, 2016, 17, 1796.	1.8	9
56	Topological Symmetry Transition between Toroidal and Klein Bottle Graphenic Systems. Symmetry, 2020, 12, 1233.	1.1	9
57	Quantum Parabolic Effects of Electronegativity and Chemical Hardness on Carbon π -Systems. Carbon Materials, 2011, , 1-32.	0.2	9
58	Bondonic Chemistry: Physical Origins and Entanglement Prospects. Carbon Materials, 2015, , 229-260.	0.2	9
59	Quantitative Structure Inter-Activity Relationship (QSInAR). Cytotoxicity Study of Some Hemisynthetic and Isolated Natural Steroids and Precursors on Human Fibrosarcoma Cells HT1080. Molecules, 2011, 16, 6603-6620.	1.7	8
60	Ligand Shaping in Induced Fit Docking of MraY Inhibitors. Polynomial Discriminant and Laplacian Operator as Biological Activity Descriptors. International Journal of Molecular Sciences, 2017, 18, 1377.	1.8	8
61	Generalized topological efficiency χ^* case study with C_{84} fullerene. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 545-550.	1.0	8
62	Valence atom with bohmian quantum potential: the golden ratio approach. Chemistry Central Journal, 2012, 6, 135.	2.6	7
63	Double Variational Binding π (SMILES) Conformational Analysis by Docking Mechanisms for Anti-HIV Pyrimidine Ligands. International Journal of Molecular Sciences, 2015, 16, 19553-19601.	1.8	7
64	Surface modification of activated carbon fabric with ozone. Part 2: Thermal analysis with TGA-FTIR and DTA. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 400-405.	1.0	7
65	Quantum particles on graphenic systems. Part 2. Bondons by absorption Raman spectra. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 330-341.	1.0	7
66	Fock-Space Coupled Cluster Theory: Systematic Study of Partial Fourth Order Triples Schemes for Ionization Potential and Comparison with Bondonic Formalism. International Journal of Molecular Sciences, 2020, 21, 6199.	1.8	7
67	Mitotic Checkpoint Proteins Mad1 and Mad2 π Structural and Functional Relationship with Implication in Genetic Diseases. Current Computer-Aided Drug Design, 2014, 10, 168-181.	0.8	6
68	Bondonic Chemistry: Spontaneous Symmetry Breaking of the Topo-reactivity on Graphene. Carbon Materials, 2016, , 345-389.	0.2	6
69	Surface modification of activated carbon fabric with ozone, part 1: Kinetics and oxidation degree. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 313-323.	1.0	6
70	Face colorings and chiral face colorings of icosahedral giant fullerenes: C80 to C240. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 1-12.	1.0	6
71	Chemical Bonding by the Chemical Orthogonal Space of Reactivity. International Journal of Molecular Sciences, 2021, 22, 223.	1.8	6
72	Spectral SAR Ecotoxicology of Ionic Liquids: TheDaphnia magnaCase. Research Letters in Ecology, 2007, 2007, 1-5.	0.6	5

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73	SPECTRAL VS. STATISTIC APPROACH OF STRUCTURE-ACTIVITY RELATIONSHIP. APPLICATION ON ECOTOXICITY OF ALIPHATIC AMINES. <i>Journal of Theoretical and Computational Chemistry</i> , 2009, 08, 1235-1251.	1.8	5
74	Bondonic Chemistry: Predicting Ionic Liquids™ (IL) Bondons by Raman-IR Spectra. <i>Carbon Materials</i> , 2015, , 347-381.	0.2	5
75	On The Action of Ozone on Single-Wall Carbon Nanohorns (SWCNH). <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 1095-1102.	1.0	5
76	Geometry and Topology of Nanotubes and Nanotori. <i>Carbon Materials</i> , 2015, , 131-152.	0.2	5
77	Bondonic Chemistry: Consecrating Silanes as Metallic Precursors for Silicenes Materials. <i>Carbon Materials</i> , 2015, , 323-345.	0.2	5
78	MTD-comsia modelling of HMG-CoA reductase inhibitors. <i>Journal of the Serbian Chemical Society</i> , 2011, 76, 85-99.	0.4	4
79	ON QUANTITATIVE STRUCTURE-TOXICITY RELATIONSHIPS (QSTR) USING HIGH CHEMICAL DIVERSITY MOLECULES GROUP. <i>Journal of Theoretical and Computational Chemistry</i> , 2012, 11, 265-272.	1.8	4
80	Topological Efficiency of Fullerene. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 971-975.	0.4	4
81	Surface modification of activated carbon fabric with ozone. Part 3: Thermochemical aspects and electron spin resonance. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 406-413.	1.0	4
82	From graphyne to cata-condensed (Acenographynes) and peri-condensed PAHs-graphyne derivatives. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018, 26, 535-544.	1.0	4
83	Atoms in Generalized Orbital Configurations: Towards Atom-Dedicated Density Functionals. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5943.	1.8	4
84	Molecular Devices and Machines: Hybrid Organic-Inorganic Structures. <i>Current Organic Chemistry</i> , 2018, 21, .	0.9	4
85	Protein Interaction with Dendrimer Monolayers: Energy and Surface Topology. <i>Symmetry</i> , 2020, 12, 641.	1.1	3
86	Combinatorics of chiral and stereo isomers of substituted nanotubes: applications of Eulerian character indices and comparison with bondonic formalism. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 0, , 1-19.	1.0	3
87	Three-Body Excitations in Fock-Space Coupled-Cluster: Fourth Order Perturbation Correction to Electron Affinity and Its Relation to Bondonic Formalism. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8953.	1.8	3
88	Neurotoxicity of Pesticides: The Roadmap for the Cubic Mode of Action. <i>Current Medicinal Chemistry</i> , 2020, 27, 54-77.	1.2	3
89	Topological Modeling of Carbon Nano-lattices. <i>Current Organic Chemistry</i> , 2018, 21, .	0.9	3
90	Chemical Field Theory: The Inverse Density Problem of Electronegativity and Chemical Hardness for Chemical Bond. <i>Current Physical Chemistry</i> , 2017, 7, .	0.1	3

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91	Quantum Dots Searching for Bondots. Advances in Chemical and Materials Engineering Book Series, 2017, , 261-327.	0.2	3
92	Structure-Biological Function Relationship Extended to Mitotic Arrest-Deficient 2-Like Protein Mad2 Native and Mutants-New Opportunity for Genetic Disorder Control. International Journal of Molecular Sciences, 2014, 15, 21381-21400.	1.8	2
93	Computational Modeling of Physical and Chemical Properties of Nanomaterials. Journal of Nanomaterials, 2015, 2015, 1-2.	1.5	2
94	An Algebraic Modification of Wiener and Hyper-Wiener Indices and Their Calculations for Fullerenes. Carbon Materials, 2016, , 33-50.	0.2	2
95	Quantum particles on graphenic systems. Part 1. roadmap for semiconductor based graphenes. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 303-314.	1.0	2
96	Bondonic Chemistry: Non-classical Implications on Classical Carbon Systems. Carbon Materials, 2015, , 261-322.	0.2	2
97	Sustainable Design of Photovoltaics. Advances in Chemical and Materials Engineering Book Series, 2017, , 412-489.	0.2	2
98	Quantum Metrological Matrices for Sustainable Graphentronics. Springer Proceedings in Energy, 2020, , 315-326.	0.2	2
99	Chemical bonding as quantum tunneling: The Capra bondons. Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30, 979-986.	1.0	2
100	Logistic vs. W-Lambert Information in Quantum Modeling of Enzyme Kinetics. International Journal of Chemoinformatics and Chemical Engineering, 2011, 1, 42-60.	0.1	1
101	Hydractinia echinata test-system. IV. Toxic synergism of human pharmaceuticals in mixtures with iodoform. Ecotoxicology and Environmental Safety, 2016, 134, 80-85.	2.9	1
102	Carbon-based specific adjacency-in-bonding (SAIB) isomerism driving aromaticity. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 733-748.	1.0	1
103	Chemical reactivity driving switchable molecular machines. A case of Bipyridine -Calixarene rotaxane. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 514-524.	1.0	1
104	Clef topo-toxicity by cubic representations of organophosphates. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 167-188.	1.0	1
105	Introducing "Colored" Molecular Topology by Reactivity Indices of Electronegativity and Chemical Hardness. Carbon Materials, 2013, , 265-286.	0.2	1
106	QSAR by Minimal Topological Difference[s]: Post-Modern Perspectives. Current Medicinal Chemistry, 2020, 27, 42-53.	1.2	1
107	Editorial (Thematic Issue: Polycyclic Aromatic Hydrocarbons: From Structure to Chemical Reactivity) Tj ETQq1 1 0.784314 rgBT /Overl	0.9	1
108	QSTR Studies Regarding the ECOSAR Toxicity of Benzene-Carboxylic Acid' Esters to Fathead Minnow Fish (Pimephales promelas). Current Computer-Aided Drug Design, 2014, 10, 99-106.	0.8	1

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109	Bondonic Electrochemistry. Advances in Chemical and Materials Engineering Book Series, 2017, , 328-411.	0.2	1
110	Quantum Dots Searching for Bondots. , 2017, , 1805-1874.		1
111	Electronic Structure of Linear Polyacenes. Current Organic Chemistry, 2018, 21, .	0.9	1
112	The Density Functional Theory Account of Interplaying Long-Range Exchange and Dispersion Effects in Supramolecular Assemblies of Aromatic Hydrocarbons with Spin. Molecules, 2022, 27, 45.	1.7	1
113	Editorial (Thematic Issue: Current Challenges in QSAR/QSPR Analysis). Current Computer-Aided Drug Design, 2014, 10, 97-98.	0.8	0
114	Developing density functional theory for Bose-Einstein condensates. The case of chemical bonding. , 2015, , .		0
115	Editorial (Thematic Issue: Graph Theory and Molecular Topology in Organic Chemistry ~ Part 2) Tj ETQq1 1 0.784314 rgBT /Overlo	0.9	0
116	New Keys for Old Keywords: Hybridization and Aromaticity, Graphs and Topology. , 2018, , 389-501.		0
117	Bond! Chemical Bond: Electronic Structure Methods at Work. , 2018, , 291-388.		0
118	Atomic Structure and Quantum Mechanics. , 2018, , 1-106.		0
119	Density Functional Theory: From Conceptual Level Toward Practical Functionality. , 2018, , 221-289.		0
120	Bonding in Rings and Clusters. , 2018, , 681-723.		0
121	Add on. The Bondon: A New Theory of Electron Effective Coupling and Density Ensembles. , 2018, , 725-782.		0
122	Editorial: Sustainable Organic and Hybrid Nanomaterials: From Structure to Functions. Current Organic Chemistry, 2018, 21, .	0.9	0
123	Molecular Modeling: From Chemical-biological Structure to Pharmaco- medical Activity and Function. Current Medicinal Chemistry, 2020, 27, 3-4.	1.2	0
124	Challenging the HSAB principle on molecular machinesâ€™ precursors. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-13.	1.0	0
125	Carbon nano-clustering introducing quantum management. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-9.	1.0	0
126	Editorial (Thematic Issue: Graph Theory and Molecular Topology in Organic Chemistry ~ Part 1 ~). Current Organic Chemistry, 2015, 19, 204-204.	0.9	0

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127	Bondonic Electrochemistry. , 2017, , 277-359.		0
128	Sustainable Design of Photovoltaics. , 2017, , 416-493.		0
129	Atlas of \dot{I} , \dot{E} , and $TM^{\circ}EC$ for Fullerenes Isomers. Advances in Chemical and Materials Engineering Book Series, 2017, , 615-656.	0.2	0
130	Entropy of Nanostructures. Advances in Chemical and Materials Engineering Book Series, 2017, , 600-614.	0.2	0
131	Ld/Mm+ Simulation of Some Aristolochic and Humic Acids Species Coupled in Periodic Box with Water. Current Computer-Aided Drug Design, 2021, 17, 708-724.	0.8	0
132	Nanoroots of Quantum Chemistry Atomic Radii, Periodic Behavior, and Bondons. , 0, , 103-143.		0
133	Logistic vs. W-Lambert Information in Quantum Modeling of Enzyme Kinetics. , 0, , 40-59.		0
134	Nanoroots of Quantum Chemistry. , 0, , 123-162.		0
135	Logistic vs. W-Lambert Information in Modeling Enzyme Kinetics at Quantum Level. , 0, , 1413-1431.		0
136	Logistic vs. W-Lambert Information in Modeling Enzyme Kinetics at Quantum Level. , 0, , 168-188.		0
137	Quantum fluctuations on matriceal graphenic heterojunctions e-circuits. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-9.	1.0	0