

Ramon Carbà³-Dorca i Carrà©

List of Publications by Year in descending order

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293
papers

8,238
citations

53751

45
h-index

74108

75
g-index

300
all docs

300
docs citations

300
times ranked

2945
citing authors

#	ARTICLE	IF	CITATIONS
1	How similar is a molecule to another? An electron density measure of similarity between two molecular structures. <i>International Journal of Quantum Chemistry</i> , 1980, 17, 1185-1189.	1.0	640
2	Critical analysis and extension of the Hirshfeld atoms in molecules. <i>Journal of Chemical Physics</i> , 2007, 126, 144111.	1.2	577
3	Electron Delocalization and Aromaticity in Linear Polyacenes: Atoms in Molecules Multicenter Delocalization Index. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7642-7648.	1.1	176
4	Critical thoughts on computing atom condensed Fukui functions. <i>Journal of Chemical Physics</i> , 2007, 127, 034102.	1.2	162
5	Molecular quantum similarity measures and N-dimensional representation of quantum objects. I. Theoretical foundations. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 1681-1693.	1.0	126
6	Quantum similarity measures under atomic shell approximation: First order density fitting using elementary Jacobi rotations. <i>Journal of Computational Chemistry</i> , 1997, 18, 2023-2039.	1.5	117
7	Negative Fukui functions: New insights based on electronegativity equalization. <i>Journal of Chemical Physics</i> , 2003, 118, 4349-4356.	1.2	114
8	Nine questions on energy decomposition analysis. <i>Journal of Computational Chemistry</i> , 2019, 40, 2248-2283.	1.5	113
9	A general survey of molecular quantum similarity. <i>Computational and Theoretical Chemistry</i> , 1998, 451, 11-23.	1.5	108
10	Toward a global maximization of the molecular similarity function: Superposition of two molecules. <i>Journal of Computational Chemistry</i> , 1997, 18, 826-846.	1.5	100
11	Molecular Quantum Similarity and the Fundamentals of QSAR. <i>Accounts of Chemical Research</i> , 2002, 35, 289-295.	7.6	99
12	Six questions on topology in theoretical chemistry. <i>Computational and Theoretical Chemistry</i> , 2015, 1053, 2-16.	1.1	99
13	Atomic Shell Approximation: Electron Density Fitting Algorithm Restricting Coefficients to Positive Values. <i>Journal of Chemical Information and Computer Sciences</i> , 1995, 35, 1046-1053.	2.8	95
14	Three-Dimensional Quantitative Structure-Activity Relationships from Tuned Molecular Quantum Similarity Measures: Prediction of the Corticosteroid-Binding Globulin Binding Affinity for a Steroid Family. <i>Journal of Chemical Information and Computer Sciences</i> , 1999, 39, 333-344.	2.8	91
15	Molecular Quantum Similarity: theoretical Framework, Ordering Principles, and Visualization Techniques. <i>Advances in Quantum Chemistry</i> , 1994, , 253-313.	0.4	89
16	Modeling the structure-property relationships of nanoneedles: A journey toward nanomedicine. <i>Journal of Computational Chemistry</i> , 2009, 30, 275-284.	1.5	76
17	Quantum molecular similarity measures (QMSM) as a natural way leading towards a theoretical foundation of quantitative structure-properties relationships (QSPR). <i>Journal of Mathematical Chemistry</i> , 1995, 18, 237-246.	0.7	75
18	Fitted electronic density functions from H to Rn for use in quantum similarity measures: cis-diamminedichloroplatinum(II) complex as an application example. <i>Journal of Computational Chemistry</i> , 1999, 20, 911-920.	1.5	75

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19	Quantum Mechanical Basis for Mulliken Population Analysis. Journal of Mathematical Chemistry, 2004, 36, 231-239.	0.7	74
20	TGSA: A molecular superposition program based on topo-geometrical considerations. Journal of Computational Chemistry, 2001, 22, 255-263.	1.5	70
21	Molecular quantum similarity measures and N-dimensional representation of quantum objects. II. Practical applications. International Journal of Quantum Chemistry, 1992, 42, 1695-1709.	1.0	69
22	Quantum mechanical origin of QSAR: theory and applications. Computational and Theoretical Chemistry, 2000, 504, 181-228.	1.5	69
23	Molsimil - 88: Molecular similarity calculations using a CNDO-like approximation. Computer Physics Communications, 1989, 55, 117-126.	3.0	67
24	Molecular basis of quantitative structure-properties relationships (QSPR): a quantum similarity approach. Journal of Computer-Aided Molecular Design, 1999, 13, 259-270.	1.3	64
25	Structure-Activity Relationships of a Steroid Family using Quantum Similarity Measures and Topological Quantum Similarity Indices. QSAR and Combinatorial Science, 1997, 16, 465-472.	1.4	62
26	A Mathematical Discussion on Density and Shape Functions, Vector Semispaces and Related Questions. Journal of Mathematical Chemistry, 2004, 36, 191-200.	0.7	61
27	Index of Ideality of Correlation: new possibilities to validate QSAR: a case study. Structural Chemistry, 2018, 29, 33-38.	1.0	61
28	On quantum molecular similarity measures (QMSM) and indices (QMSI). Journal of Mathematical Chemistry, 1996, 19, 47-56.	0.7	59
29	Inward matrix products: extensions and applications to quantum mechanical foundations of QSAR. Computational and Theoretical Chemistry, 2001, 537, 41-54.	1.5	59
30	Quantum similarity measures, molecular cloud description, and structure-properties relationships. Journal of Chemical Information and Computer Sciences, 1992, 32, 600-606.	2.8	58
31	Application of Molecular Quantum Similarity to QSAR. QSAR and Combinatorial Science, 1997, 16, 25-32.	1.4	58
32	Molecular Quantum Similarity Measures Tuned 3D QSAR: An Antitumoral Family Validation Study. Journal of Chemical Information and Computer Sciences, 1998, 38, 624-631.	2.8	57
33	Negative and Infinite Fukui Functions: The Role of Diagonal Dominance in the Hardness Matrix. Journal of Mathematical Chemistry, 2003, 34, 67-74.	0.7	56
34	Molecular Electronic Density Fitting Using Elementary Jacobi Rotations under Atomic Shell Approximation. Journal of Chemical Information and Computer Sciences, 2000, 40, 1188-1198.	2.8	55
35	Use of ab Initio Quantum Molecular Similarities as an Interpretative Tool for the Study of Chemical Reactions. Journal of the American Chemical Society, 1994, 116, 5909-5915.	6.6	54
36	A comparative analysis by means of quantum molecular similarity measures of density distributions derived from conventional ab initio and density functional methods. Journal of Chemical Physics, 1996, 104, 636-647.	1.2	54

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37	Definition and quantum chemical applications of nested summation symbols and logical functions: Pedagogical artificial intelligence devices for formulae writing, sequential programming and automatic parallel implementation. <i>Journal of Mathematical Chemistry</i> , 1995, 18, 37-72.	0.7	53
38	Molecular quantum similarity measures as an alternative to log P values in QSAR studies. <i>Journal of Computational Chemistry</i> , 1998, 19, 1575-1583.	1.5	53
39	The Fukui matrix: a simple approach to the analysis of the Fukui function and its positive character. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6110.	1.3	53
40	Foundation of quantum similarity measures and their relationship to QSPR: Density function structure, approximations, and application examples. <i>International Journal of Quantum Chemistry</i> , 2005, 101, 8-20.	1.0	51
41	Aromaticity in linear polyacenes: Generalized population analysis and molecular quantum similarity approach. <i>Journal of Computational Chemistry</i> , 2007, 28, 152-160.	1.5	51
42	Triple density molecular quantum similarity measures: A general connection between theoretical calculations and experimental results. <i>Molecular Engineering</i> , 1992, 2, 43-64.	0.2	48
43	Communications on quantum similarity, part 3: A geometric quantum similarity molecular superposition algorithm. <i>Journal of Computational Chemistry</i> , 2011, 32, 582-599.	1.5	48
44	On the calculation of atomic quantum molecular similarities for large systems: Fitting the electron density. <i>Journal of Computational Chemistry</i> , 1994, 15, 1113-1120.	1.5	46
45	Modeling Antimalarial Activity: Application of Kinetic Energy Density Quantum Similarity Measures as Descriptors in QSAR. <i>Journal of Chemical Information and Computer Sciences</i> , 2000, 40, 1400-1407.	2.8	46
46	Use of promolecular ASA density functions as a general algorithm to obtain starting MO in SCF calculations. <i>International Journal of Quantum Chemistry</i> , 2002, 87, 59-67.	1.0	46
47	Quantum similarity approach to LFER: substituent and solvent effects on the acidities of carboxylic acids. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 447-454.	0.9	45
48	Title is missing!. <i>Journal of Mathematical Chemistry</i> , 2002, 32, 201-223.	0.7	45
49	Molecular Quantum Similarity Analysis of Estrogenic Activity. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1166-1176.	2.8	45
50	Definition, mathematical examples and quantum chemical applications of nested summation symbols and logical Kronecker deltas. <i>Computers & Chemistry</i> , 1994, 18, 117-126.	1.2	44
51	Simple Linear QSAR Models Based on Quantum Similarity Measures. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 5169-5180.	2.9	44
52	Quantum Similarity Superposition Algorithm (QSSA): A Consistent Scheme for Molecular Alignment and Molecular Similarity Based on Quantum Chemistry. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1143-1150.	2.8	44
53	Fuzzy sets and boolean tagged sets; vector semispaces and convex sets; quantum similarity measures and asa density functions; diagonal vector spaces and quantum chemistry. <i>Advances in Molecular Similarity</i> , 1999, , 43-72.	0.5	43
54	Tagged sets, convex sets and quantum similarity measures. <i>Journal of Mathematical Chemistry</i> , 1998, 23, 353-364.	0.7	42

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55	Commentaries on quantum similarity (1): Density gradient quantum similarity. <i>Journal of Computational Chemistry</i> , 2010, 31, 2195-2212.	1.5	42
56	Fuzzy sets and Boolean tagged sets. <i>Journal of Mathematical Chemistry</i> , 1997, 22, 143-147.	0.7	40
57	Identification of Active Molecular Sites Using Quantum-Self-Similarity Measures. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 978-991.	2.8	39
58	Chemical structures from the analysis of domain-averaged Fermi holes: Multiple metal-metal bonding in transition metal compounds. <i>Journal of Computational Chemistry</i> , 2003, 24, 1829-1838.	1.5	39
59	Shells, point cloud huts, generalized scalar products, cosines and similarity tensor representations in vector semispaces. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 210-219.	0.7	39
60	Modelling Toxicity using Molecular Quantum Similarity Measures. <i>QSAR and Combinatorial Science</i> , 2006, 25, 579-589.	1.5	38
61	Structure-activity relations of phenethylamine. Comparison of quantum mechanical SCF ab initio and semiempirical calculations. <i>Journal of the American Chemical Society</i> , 1975, 97, 1338-1347.	6.6	36
62	A Formal Comparison between Molecular Quantum Similarity Measures and Indices. <i>Journal of Chemical Information and Computer Sciences</i> , 1998, 38, 469-475.	2.8	36
63	Use of electron-electron repulsion energy as a molecular descriptor in QSAR and QSPR studies. <i>Journal of Computer-Aided Molecular Design</i> , 2000, 14, 477-485.	1.3	36
64	Quality of Approximate Electron Densities and Internal Consistency of Molecular Alignment Algorithms in Molecular Quantum Similarity. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 1208-1217.	2.8	36
65	Maximal probability domains in linear molecules. <i>Journal of Computational Chemistry</i> , 2005, 26, 455-460.	1.5	36
66	Some remarks about a generalized SCF coupling operator open shell theory. <i>Chemical Physics Letters</i> , 1975, 30, 43-48.	1.2	34
67	Aromatic Compounds Aquatic Toxicity QSAR Using Molecular Quantum Similarity Measures. <i>SAR and QSAR in Environmental Research</i> , 1999, 10, 401-422.	1.0	34
68	Stochastic transformation of quantum similarity matrices and their use in quantum QSAR (QQSAR) models. <i>International Journal of Quantum Chemistry</i> , 2000, 79, 163-177.	1.0	34
69	Elementary Unitary MO Transformations and SCF Theory. <i>Advances in Quantum Chemistry</i> , 1982, 15, 215-265.	0.4	33
70	Nested summation symbols and perturbation theory. <i>Journal of Mathematical Chemistry</i> , 1993, 13, 331-342.	0.7	33
71	Quantum molecular similarity measures and the n-dimensional representation of a molecular set: phenyldimethylthiazines. <i>Computational and Theoretical Chemistry</i> , 1992, 254, 517-531.	1.5	32
72	Structure-toxicity relationships of polycyclic aromatic hydrocarbons using molecular quantum similarity. <i>Journal of Computer-Aided Molecular Design</i> , 2001, 15, 67-80.	1.3	32

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73	Notes on quantitative structure-properties relationships (QSPR) (1): A discussion on a QSPR dimensionality paradox (QSPR DP) and its quantum resolution. <i>Journal of Computational Chemistry</i> , 2009, 30, 1146-1159.	1.5	32
74	A comparative study of isodensity surfaces using ab initio and ASA density functions. <i>Journal of Molecular Graphics and Modelling</i> , 1998, 16, 190-196.	1.3	31
75	Title is missing!. <i>Journal of Mathematical Chemistry</i> , 2001, 30, 227-245.	0.7	31
76	Natural Vector Spaces (inward power and Minkowski norm of a Natural Vector, Natural Boolean) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i> 914-940.	0.7	31
77	General trends in atomic and nuclear quantum similarity measures. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 685-692.	1.0	30
78	Molecular Quantum Similarity Matrix Based Clustering of Molecules Using Dendrograms. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 170-177.	2.8	30
79	A General Procedure to Obtain Quantum Mechanical Charge and Bond Order Molecular Parameters. <i>Journal of Mathematical Chemistry</i> , 2004, 36, 201-210.	0.7	30
80	Coulomb and Overlap Self-Similarities: A Comparative Selectivity Analysis of Structure-Function Relationships for Auxin-like Molecules. <i>Journal of Chemical Information and Modeling</i> , 2006, 46, 1751-1762.	2.5	30
81	Quantum Molecular Similarity: Theory and Applications to the Evaluation of Molecular Properties, Biological Activities and Toxicity. <i>Mathematical and Computational Chemistry</i> , 2001, , 187-320.	0.3	30
82	Fast Calculation of Quantum Chemical Molecular Descriptors from the Electronegativity Equalization Method. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 422-428.	2.8	29
83	Molecular quantum similarity using conceptual DFT descriptors. <i>Journal of Chemical Sciences</i> , 2005, 117, 425-435.	0.7	29
84	Analyzing the Triple Density Molecular Quantum Similarity Measures with the INDSCAL Model. <i>Journal of Chemical Information and Computer Sciences</i> , 1998, 38, 620-623.	2.8	27
85	Application of promolecular asa densities to graphical representation of density functions of macromolecular systems. <i>Journal of Molecular Graphics and Modelling</i> , 2001, 19, 343-348.	1.3	27
86	Molecular Basis of LFER. Modeling of the Electronic Substituent Effect Using Fragment Quantum Self-Similarity Measures. <i>Journal of Chemical Information and Computer Sciences</i> , 2003, 43, 2033-2038.	2.8	27
87	About the prediction of molecular properties using the fundamental Quantum QSPR (QQSPR) equation. <i>SAR and QSAR in Environmental Research</i> , 2007, 18, 265-284.	1.0	27
88	Molecular quantum similarity measures in Minkowski metric vector semispaces. <i>Journal of Mathematical Chemistry</i> , 2008, 44, 628-636.	0.7	27
89	Communications on quantum similarity (4): collective distances computed by means of similarity matrices, as generators of intrinsic ordering among quantum multimolecular polyhedra. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2015, 5, 380-404.	6.2	27
90	Quantum polyhedra, definitions, statistics and the construction of a collective quantum similarity index. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 171-182.	0.7	27

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91	Unconditional convergence in SCF theory: a general level shift technique. <i>Chemical Physics Letters</i> , 1977, 47, 581-583.	1.2	26
92	Analysis of the changes on the potential energy surface of Menshutkin reactions induced by external perturbations. <i>Computational and Theoretical Chemistry</i> , 1996, 371, 171-183.	1.5	26
93	Title is missing!. <i>Journal of Mathematical Chemistry</i> , 1998, 23, 365-375.	0.7	26
94	Using Molecular Quantum Similarity Measures as Descriptors in Quantitative Structure-Toxicity Relationships. <i>SAR and QSAR in Environmental Research</i> , 1999, 10, 545-556.	1.0	26
95	Modeling Large Macromolecular Structures Using Promolecular Densities. <i>Journal of Chemical Information and Computer Sciences</i> , 2002, 42, 847-852.	2.8	26
96	Estimation of infinite dilution activity coefficients of organic compounds in water with neural classifiers. <i>AIChE Journal</i> , 2004, 50, 1315-1343.	1.8	26
97	Notes on quantitative structure-property relationships (QSPR), part 3: Density functions origin shift as a source of quantum QSPR algorithms in molecular spaces. <i>Journal of Computational Chemistry</i> , 2013, 34, 766-779.	1.5	26
98	N-dimensional Boolean hypercubes and the goldbach conjecture. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 1213-1220.	0.7	26
99	Quantum molecular similarity measures. <i>Advances in Molecular Similarity</i> , 1996, , 1-42.	0.5	26
100	Ab Initio Quantum Molecular Similarity Measures on Metal-Substituted Carbonic Anhydrase (MICA, M) Tj ETQq0 0 0 rgBT /Overlock 10 T 1047-1053.	2.8	25
101	Quantification of the Influence of Single-Point Mutations on Haloalkane Dehalogenase Activity: A Molecular Quantum Similarity Study. <i>Journal of Chemical Information and Computer Sciences</i> , 2000, 40, 839-846.	2.8	25
102	Quantum similarity and discrete representation of molecular sets. <i>Journal of Mathematical Chemistry</i> , 2011, 49, 1558-1572.	0.7	25
103	Centroid origin shift of quantum object sets and molecular point clouds description and element comparisons. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1161-1178.	0.7	25
104	Quantum molecular similarity measures (QMSM) and the atomic shell approximation (ASA). <i>Advances in Molecular Similarity</i> , 1996, , 187-211.	0.5	25
105	Solutions to the Quantum QSPR problem in molecular spaces. <i>Theoretical Chemistry Accounts</i> , 2007, 118, 673-679.	0.5	24
106	Quantum Similarity and Quantum Quantitative Structure-Properties Relationships (QQSPR). , 2009, , 7422-7480.		24
107	Fundamental quantum QSAR (Q2SAR) equation: extensions, nonlinear terms, and generalizations within extended Hilbert-Sobolev spaces. <i>International Journal of Quantum Chemistry</i> , 2002, 88, 167-182.	1.0	23
108	TGSA-Flex: Extending the capabilities of the Topo-Geometrical superposition algorithm to handle flexible molecules. <i>Journal of Computational Chemistry</i> , 2004, 25, 153-159.	1.5	23

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109	Select-divide-and-conquer method for large-scale configuration interaction. <i>Journal of Chemical Physics</i> , 2006, 125, 014108.	1.2	23
110	Construction of coherent nano quantitative structureâ€“properties relationships (nano-QSPR) models and catastrophe theory. <i>SAR and QSAR in Environmental Research</i> , 2011, 22, 661-665.	1.0	23
111	Many Center AO Integral Evaluation Using Cartesian Exponential Type Orbitals (CETO'S). <i>Advances in Quantum Chemistry</i> , 1992, , 115-237.	0.4	21
112	On the extension of quantum similarity to atomic nuclei: Nuclear quantum similarity. <i>Journal of Mathematical Chemistry</i> , 1998, 23, 327-351.	0.7	21
113	Inward matrix products, generalised density functions and Rayleighâ€“SchrÃ¶dinger perturbation theory. <i>Computational and Theoretical Chemistry</i> , 2000, 501-502, 173-176.	1.5	21
114	Molecular Basis of Linear Free Energy Relationships. The Nature of Inductive Effect in Aliphatic Series. <i>Journal of Chemical Information and Computer Sciences</i> , 2002, 42, 564-570.	2.8	21
115	A new insight on the quantum quantitative structureâ€“properties relationships. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 1721-1734.	1.0	21
116	Multimolecular polyhedra and QSPR. <i>Journal of Mathematical Chemistry</i> , 2014, 52, 1848-1856.	0.7	21
117	DNA, unnatural base pairs and hypercubes. <i>Journal of Mathematical Chemistry</i> , 2018, 56, 1353-1356.	0.7	21
118	Divagations about the periodic table: Boolean hypercube and quantum similarity connections. <i>Journal of Computational Chemistry</i> , 2019, 40, 2653-2663.	1.5	21
119	Rational modelling of the voltage-dependent K ⁺ channel inactivation by aminopyridines. <i>Biophysical Chemistry</i> , 2003, 104, 417-427.	1.5	20
120	Structureâ€“property relationships and momentum space quantities: Hammett ρ constants. <i>Molecular Physics</i> , 2003, 101, 3159-3162.	0.8	20
121	Unrevealed structural requirements for auxin-like molecules by theoretical and experimental evidences. <i>Phytochemistry</i> , 2007, 68, 237-250.	1.4	20
122	Collective Euclidian distances and quantum similarity. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 338-353.	0.7	20
123	Extended density functions. <i>Advances in Quantum Chemistry</i> , 2000, 38, 1-63.	0.4	19
124	Algebraic relationships between conceptual DFT quantities and the electronegativity equalization hardness matrix. <i>Chemical Physics Letters</i> , 2002, 364, 357-362.	1.2	19
125	Similarity approach to QSAR. <i>International Journal of Pharmaceutics</i> , 2004, 269, 51-60.	2.6	19
126	Definition of norm coherent generalized scalar products and quantum similarity. <i>Journal of Mathematical Chemistry</i> , 2010, 47, 331-344.	0.7	19

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127	Open Shell SCF Theory: An ab Initio Study of Some Interstellar Molecules. <i>Advances in Quantum Chemistry</i> , 1980, 12, 159-187.	0.4	18
128	Facet diagrams for quantum similarity data. <i>Journal of Computer-Aided Molecular Design</i> , 1999, 13, 597-610.	1.3	18
129	Quantum similarity QSAR: Study of inhibitors binding to thrombin, trypsin, and factor Xa, including a comparison with CoMFA and CoMSIA methods. <i>International Journal of Quantum Chemistry</i> , 2000, 80, 265-282.	1.0	18
130	Antimalarial activity of synthetic 1,2,4-trioxanes and cyclic peroxy ketals, a quantum similarity study. <i>Journal of Computer-Aided Molecular Design</i> , 2001, 15, 1053-1063.	1.3	18
131	Non-linear Terms & Variational Approach in Quantum QSPR. <i>Journal of Mathematical Chemistry</i> , 2004, 36, 241-260.	0.7	18
132	Communications on quantum similarity (2): A geometric discussion on holographic electron density theorem and confined quantum similarity measures. <i>Journal of Computational Chemistry</i> , 2010, 31, 2452-2462.	1.5	18
133	Mathematical aspects of the LCAO MO first order density function (5): centroid shifting of MO shape functions basis set, properties and applications. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 289-296.	0.7	18
134	About Erdős discrepancy conjecture. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 657-660.	0.7	18
135	All valence electron wavefunctions and electrostatic molecular potentials under zero differential overlap approximation. <i>Chemical Physics Letters</i> , 1974, 25, 89-91.	1.2	17
136	Empirical quantum chemical approach to structure-gas chromatographic retention index relationships. <i>Journal of Chromatography A</i> , 1975, 108, 337-344.	1.8	17
137	Quantum QSAR and the eigensystems of stochastic quantum similarity matrices. <i>Journal of Mathematical Chemistry</i> , 2000, 27, 357-376.	0.7	17
138	Applications of inward matrix products and matrix wave functions to Hückel MO theory, Slater extended wave functions, spin extended functions, and Hartree method. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 607-617.	1.0	17
139	Scaled Euclidian distances: a general dissimilarity index with a suitably defined geometrical foundation. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 734-740.	0.7	17
140	An isometric representation problem in quantum multimolecular polyhedra and similarity. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 1750-1758.	0.7	17
141	A general multiconfiguration paired excitation self-consistent field theory (MC PE SCF). <i>Chemical Physics Letters</i> , 1977, 47, 85-91.	1.2	16
142	Molecular Quantum Similarity-Based QSARs for Binding Affinities of Several Steroid Sets. <i>Journal of Chemical Information and Computer Sciences</i> , 2002, 42, 1185-1193.	2.8	16
143	Toward an Alternative Hardness Kernel Matrix Structure in the Electronegativity Equalization Method (EEM). <i>Journal of Chemical Information and Modeling</i> , 2006, 46, 1657-1665.	2.5	16
144	A quantum similarity matrix (QSM) Aufbau procedure. <i>Journal of Mathematical Chemistry</i> , 2008, 44, 228-234.	0.7	16

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145	Quantum similarity matrices column set as holograms of DF molecular point clouds. Journal of Mathematical Chemistry, 2012, 50, 2339-2341.	0.7	16
146	Quantum similarity. Advances in Molecular Similarity, 1999, , 1-42.	0.5	16
147	Mathematical Elements of Quantum Electronic Density Functions. Advances in Quantum Chemistry, 2005, , 121-207.	0.4	15
148	Notes on quantitative structureâ€properties relationships (QSPR) part 2: The role of the number of atoms as a molecular descriptor. Journal of Computational Chemistry, 2009, 30, 2099-2104.	1.5	15
149	A Gaussian holographic theorem and the projection of electronic density functions into the surface of a sphere. Journal of Mathematical Chemistry, 2010, 48, 914-924.	0.7	15
150	The general Gaussian product theorem. Journal of Mathematical Chemistry, 2011, 49, 1769-1784.	0.7	15
151	Toward a universal quantum QSPR operator. International Journal of Quantum Chemistry, 2018, 118, e25602.	1.0	15
152	The perturbation theory for non-degenerate states and the extended Hückel method. Theoretica Chimica Acta, 1970, 17, 74-80.	0.9	14
153	Extending molecular similarity to energy surfaces: Boltzmann similarity measures and indices. Journal of Mathematical Chemistry, 1996, 20, 247-261.	0.7	14
154	Quantum similarity, volume functions and generalized Carbà indices. Journal of Mathematical Chemistry, 2011, 49, 2109-2115.	0.7	14
155	About the concept of Chemical Space: a concerned reflection on some trends of modern scientific thought within theoretical chemical lore. Journal of Mathematical Chemistry, 2013, 51, 413-419.	0.7	14
156	Aromaticity, quantum multimolecular polyhedra, and quantum QSPR fundamental equation. Journal of Computational Chemistry, 2016, 37, 78-82.	1.5	14
157	A study on Goldbach conjecture. Journal of Mathematical Chemistry, 2016, 54, 1798-1809.	0.7	14
158	Boolean Hypercubes as time representation holders. Journal of Mathematical Chemistry, 2018, 56, 1349-1352.	0.7	14
159	Electrostatic molecular potential as a static index in the study of aromatic substitutions. Chemical Physics Letters, 1975, 31, 267-270.	1.2	13
160	Electrostatic corrections to extended Hückel theory. International Journal of Quantum Chemistry, 1977, 11, 271-276.	1.0	13
161	A naive look on the Hohenbergâ€Kohn theorem. Journal of Mathematical Chemistry, 1999, 25, 253-257.	0.7	13
162	Icosahedral symmetry structures with open-shell electronic configuration hN (N=1â€9).. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 267, 370-378.	0.9	13

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163	Smooth function topological structure descriptors based on graph-spectra. <i>Journal of Mathematical Chemistry</i> , 2008, 44, 373-378.	0.7	13
164	Mathematical aspects of the LCAO MO first order density function (4): a discussion on the connection of Taylor series expansion of electronic density (TSED) function with the holographic electron density theorem (HEDT) and the Hohenberg-Kohn theorem (HKT). <i>Journal of Mathematical Chemistry</i> , 2011, 49, 836-842.	0.7	13
165	EMP as a similarity measure: a geometric point of view. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 382-389.	0.7	13
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