

# Shridhar R Gadre

## List of Publications by Year in descending order

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214  
papers

8,529  
citations

34105

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58581

82  
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215  
docs citations

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times ranked

3957  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enabling Rapid and Accurate Construction of CCSD(T)-Level Potential Energy Surface of Large Molecules Using Molecular Tailoring Approach. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1458-1464.	2.5	7
2	Development and testing of an algorithm for efficient MP2/CCSD(T) energy estimation of molecular clusters with the 2â€body approach. <i>Journal of Computational Chemistry</i> , 2022, , .	3.3	0
3	Hydration shell model for expeditious and reliable individual hydrogen bond energies in large water clusters. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15462-15473.	2.8	8
4	DAMQT 3: Advanced suite for the analysis of molecular density and related properties in large systems. <i>Computer Physics Communications</i> , 2022, 279, 108460.	7.5	2
5	Citation-Based Criterion for Identifying Long-Lasting Research Papers. <i>Current Science</i> , 2021, 120, 209.	0.8	0
6	Molecular Tailoring Approach for the Estimation of Intramolecular Hydrogen Bond Energy. <i>Molecules</i> , 2021, 26, 2928.	3.8	30
7	Electrostatic Potential Topology for Probing Molecular Structure, Bonding and Reactivity. <i>Molecules</i> , 2021, 26, 3289.	3.8	79
8	Life and Science of Clemens C. J. Roothaan. <i>Resonance</i> , 2021, 26, 737-755.	0.3	2
9	Antiaromaticityâ€Aromaticity Interplay in Fused Benzenoid Systems Using Molecular Electrostatic Potential Topology. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5999-6012.	2.5	10
10	Molecular Tailoring Approach for Estimating Individual Intermolecular Interaction Energies in Benzene Clusters. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6131-6140.	2.5	16
11	Theoretical and experimental study of IR spectra of large phenol-acetylene clusters, Ph(Ac) <sub>n</sub> for 8 ≤ n ≤ 12. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100100.	2.8	2
12	Unusually Large Hydrogen-Bond Cooperativity in Hydrogen Fluoride Clusters, (HF) <sub>n</sub> , n = 3 to 8, Revealed by the Molecular Tailoring Approach. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8836-8845.	2.5	16
13	Direct and Reliable Method for Estimating the Hydrogen Bond Energies and Cooperativity in Water Clusters, W <sub>n</sub> , n = 3 to 8. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6699-6706.	2.5	34
14	Fragmentation method reveals a wide spectrum of intramolecular hydrogen bond energies in antioxidant natural products. <i>New Journal of Chemistry</i> , 2020, 44, 5841-5849.	2.8	12
15	Eleven Years of Dr D. S. Kothari Postdoctoral Fellowship Scheme of the University Grants Commission. <i>Current Science</i> , 2020, 118, 352.	0.8	0
16	Electrostatic Topographical Viewpoint of ĩ-Conjugation and Aromaticity of Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10139-10151.	2.5	9
17	Electrostatics-Assisted Building-Up Procedure for Capturing Energy Minima of Metal Clusters: Test Case of Ag <sub>n</sub> Clusters. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7872-7880.	2.5	4
18	Pragmatic Many-Body Approach for Economic MP2 Energy Estimation of Molecular Clusters. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5005-5011.	2.5	11

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19	Preface. Journal of Computational Chemistry, 2018, 39, 457-457.	3.3	0
20	PAREMD: A parallel program for the evaluation of momentum space properties of atoms and molecules. Computer Physics Communications, 2018, 224, 299-310.	7.5	13
21	Electrostatics for probing lone pairs and their interactions. Journal of Computational Chemistry, 2018, 39, 488-499.	3.3	37
22	Harmonizing accuracy and efficiency: A pragmatic approach to fragmentation of large molecules. Journal of Chemical Physics, 2018, 149, 064112.	3.0	15
23	A Critical Analysis of the "UGC-Approved List of Journals"™. Current Science, 2018, 114, 1299.	0.8	28
24	Topology of molecular electron density and electrostatic potential with DAMQT. Computer Physics Communications, 2017, 214, 207-215.	7.5	25
25	Explicit hydration of ammonium ion by correlated methods employing molecular tailoring approach. Molecular Physics, 2017, 115, 2708-2720.	1.7	7
26	A combined theoretical and experimental study of phenol-(acetylene) <sub>n</sub> (n = 7) clusters. Journal of Chemical Physics, 2017, 146, 154303.	3.0	6
27	Molecular Electrostatic Potential-Based Atoms in Molecules: Shielding Effects and Reactivity Patterns. Australian Journal of Chemistry, 2016, 69, 975.	0.9	7
28	Vibrational infrared and Raman spectra of polypeptides: Fragments-in-fragments within molecular tailoring approach. Journal of Chemical Physics, 2016, 144, 114113.	3.0	32
29	Breaking the bottleneck: Use of molecular tailoring approach for the estimation of binding energies at MP2/CBS limit for large water clusters. Journal of Chemical Physics, 2016, 144, 104102.	3.0	20
30	Bonding and Reactivity Patterns from Electrostatic Landscapes of Molecules. Journal of Chemical Sciences, 2016, 128, 1519-1526.	1.5	9
31	Toward an Accurate and Inexpensive Estimation of CCSD(T)/CBS Binding Energies of Large Water Clusters. Journal of Physical Chemistry A, 2016, 120, 5706-5714.	2.5	31
32	Exploring the Gradient Paths and Zero Flux Surfaces of Molecular Electrostatic Potential. Journal of Chemical Theory and Computation, 2016, 12, 1705-1713.	5.3	17
33	DAMQT 2.1.0: A new version of the DAMQT package enabled with the topographical analysis of electron density and electrostatic potential in molecules. Journal of Computational Chemistry, 2015, 36, 2350-2359.	3.3	47
34	Understanding Packing Patterns in Crystals by Analysis of Small Aggregates: A Case Study of CS <sub>2</sub> . Journal of Physical Chemistry A, 2015, 119, 13055-13063.	2.5	7
35	Hybrid QTAIM and electrostatic potential-based quantum topology phase diagrams for water clusters. Physical Chemistry Chemical Physics, 2015, 17, 15258-15273.	2.8	9
36	On the electrostatic nature of electrides. Physical Chemistry Chemical Physics, 2015, 17, 15030-15035.	2.8	15

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37	Stability of conformationally locked free fructose: theoretical and computational insights. <i>New Journal of Chemistry</i> , 2015, 39, 9006-9018.	2.8	6
38	Accurate vibrational spectra via molecular tailoring approach: A case study of water clusters at MP2 level. <i>Journal of Chemical Physics</i> , 2015, 142, 014107.	3.0	20
39	Structures, energetics and vibrational spectra of (H <sub>2</sub> O) <sub>32</sub> clusters: a journey from model potentials to correlated theory. <i>Molecular Physics</i> , 2015, 113, 2970-2979.	1.7	18
40	Low energy isomers of (H <sub>2</sub> O) <sub>25</sub> from a hierarchical method based on Monte Carlo temperature basin paving and molecular tailoring approaches benchmarked by MP2 calculations. <i>Journal of Chemical Physics</i> , 2014, 141, 164304.	3.0	23
41	Molecular Tailoring Approach: A Route for <i>ab Initio</i> Treatment of Large Clusters. <i>Accounts of Chemical Research</i> , 2014, 47, 2739-2747.	15.6	103
42	Lone Pairs: An Electrostatic Viewpoint. <i>Journal of Physical Chemistry A</i> , 2014, 118, 526-532.	2.5	89
43	Quantum Chemical Investigations on Molecular Clusters. <i>Chemical Reviews</i> , 2014, 114, 12132-12173.	47.7	170
44	Molecular electrostatics for probing lone pair-π interactions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18401.	2.8	94
45	High-Level <i>ab Initio</i> Investigations on Structures and Energetics of N <sub>2</sub> O Clusters. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8591-8598.	2.5	10
46	Exploring Structures and Energetics of Large OCS Clusters by Correlated Methods. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10964-10972.	2.5	11
47	Appraisal of molecular tailoring approach for large clusters. <i>Journal of Chemical Physics</i> , 2013, 138, 104101.	3.0	54
48	Studies toward Oxyacetamide-Linked RNA Analogues: Synthesis and Conformation of a Modified Dinucleoside. <i>Synthesis</i> , 2012, 44, 2277-2286.	2.3	1
49	Rapid topography mapping of scalar fields: Large molecular clusters. <i>Journal of Chemical Physics</i> , 2012, 137, 074116.	3.0	21
50	Facilitating Minima Search for Large Water Clusters at the MP2 Level via Molecular Tailoring. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2253-2258.	4.6	69
51	Hydrogen Bond Energies and Cooperativity in Substituted Calix[ <i>n</i> ]arenes ( <i>n</i> = 4, 5). <i>Journal of Physical Chemistry A</i> , 2012, 116, 3739-3744.	2.5	37
52	Structures, energetics and vibrational spectra of CO <sub>2</sub> clusters through molecular tailoring and cluster building algorithm. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7718.	2.8	21
53	Tailoring approach for obtaining molecular orbitals of large systems#. <i>Journal of Chemical Sciences</i> , 2012, 124, 149-158.	1.5	7
54	Acetylene aggregates via cluster-building algorithm and molecular tailoring approach. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	16



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73	Cation- $\pi$ interaction: to stack or to spread. <i>Molecular Physics</i> , 2008, 106, 1557-1566.	1.7	19
74	Use of molecular electrostatic potential for quantitative assessment of inductive effect. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6492.	2.8	58
75	Molecular electrostatic potentials of divalent carbon(0) compounds. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2298.	2.8	52
76	Structure, Energetics, and Reactivity of Boric Acid Nanotubes: A Molecular Tailoring Approach. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7699-7704.	2.5	36
77	Intramolecular Hydrogen Bonding and Cooperative Interactions in Carbohydrates via the Molecular Tailoring Approach. <i>Journal of Physical Chemistry A</i> , 2008, 112, 312-321.	2.5	109
78	An appraisal of Poincaré-Hopf relation and application to topography of molecular electrostatic potentials. <i>Journal of Chemical Physics</i> , 2008, 129, 174103.	3.0	34
79	Enabling <i>ab initio</i> Hessian and frequency calculations of large molecules. <i>Journal of Chemical Physics</i> , 2008, 129, 234101.	3.0	78
80	An <i>ab initio</i> investigation on (CO <sub>2</sub> ) <sub>n</sub> and CO <sub>2</sub> (Ar) <sub>m</sub> clusters: Geometries and IR spectra. <i>Journal of Chemical Physics</i> , 2008, 128, 124310.	3.0	33
81	Electrostatic guidelines and molecular tailoring for density functional investigation of structures and energetics of (Li) <sub>n</sub> clusters. <i>Journal of Chemical Physics</i> , 2008, 129, 164314.	3.0	23
82	Intramolecular Hydrogen Bond Energy in Polyhydroxy Systems: A Critical Comparison of Molecular Tailoring and Isodesmic Approaches. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6472-6480.	2.5	67
83	Electrostatic Potential Minimum of the Aromatic Ring as a Measure of Substituent Constant. <i>Journal of Physical Chemistry A</i> , 2007, 111, 710-714.	2.5	91
84	Effect of matrix on IR frequencies of acetylene and acetylene-methanol complex: Infrared matrix isolation and <i>ab initio</i> study. <i>Journal of Chemical Physics</i> , 2007, 127, 104501.	3.0	46
85	Electrostatic Potential Topography for Exploring Electronic Reorganizations in 1,3 Dipolar Cycloadditions. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2733-2738.	2.5	28
86	Estimation of Intramolecular Hydrogen Bond Energy via Molecular Tailoring Approach. <i>Journal of Physical Chemistry A</i> , 2006, 110, 12519-12523.	2.5	93
87	Can Ring Strain Be Realized in Momentum Space?. <i>Journal of the American Chemical Society</i> , 2006, 128, 10702-10706.	13.7	8
88	Atoms-in-molecules in momentum space: A Hirshfeld partitioning of electron momentum densities. <i>Journal of Chemical Physics</i> , 2006, 124, 204113.	3.0	12
89	Molecular tailoring approach for geometry optimization of large molecules: Energy evaluation and parallelization strategies. <i>Journal of Chemical Physics</i> , 2006, 125, 104109.	3.0	246
90	MOLECULAR TAILORING APPROACH: TOWARDS PC-BASED AB INITIO TREATMENT OF LARGE MOLECULES. <i>Journal of Theoretical and Computational Chemistry</i> , 2006, 05, 835-855.	1.8	72

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91	Adsorption of water on sodium chloride surfaces: electrostatics "guided ab initio studies. Theoretical Chemistry Accounts, 2005, 114, 129-136.	1.4	9
92	Topography of molecular scalar fields. II. An appraisal of the hierarchy principle for electron momentum densities. Journal of Chemical Physics, 2005, 122, 164108.	3.0	2
93	Why Are Carborane Acids so Acidic? An Electrostatic Interpretation of Brønsted Acid Strengths. Inorganic Chemistry, 2005, 44, 9613-9615.	4.0	24
94	Many-body interaction analysis: Algorithm development and application to large molecular clusters. Journal of Chemical Physics, 2004, 121, 5043-5050.	3.0	61
95	Molecular interpretation of water structuring and destructuring effects: Hydration of alkanediols. Journal of Chemical Physics, 2004, 121, 12402.	3.0	36
96	Tailoring approach for exploring electron densities and electrostatic potentials of molecular crystals. Theoretical Chemistry Accounts, 2004, 111, 255-263.	1.4	71
97	Electrostatics-guided ab initio studies on weakly bonded complexes of substituted naphthalenes. Chemical Physics Letters, 2004, 384, 350-356.	2.6	5
98	Exploring Hydration Patterns of Aldehydes and Amides: Ab Initio Investigations. Journal of Physical Chemistry A, 2004, 108, 2492-2498.	2.5	41
99	Structure, Reactivity and Aromaticity of Acenes and Their BN Analogues: A Density Functional and Electrostatic Investigation. Inorganic Chemistry, 2004, 43, 5824-5832.	4.0	61
100	Ab initio quality one-electron properties of large molecules: Development and testing of molecular tailoring approach. Journal of Computational Chemistry, 2003, 24, 484-495.	3.3	133
101	Topography of molecular scalar fields. I. Algorithm and Poincaré-Hopf relation. Journal of Chemical Physics, 2003, 119, 5037-5043.	3.0	110
102	Information Theoretical Approaches to Quantum Chemistry. , 2002, , 108-147.		22
103	H <sub>2</sub> Complexes of Acetylene-Ethylene: A Matrix Isolation and Computational Study. Journal of Physical Chemistry A, 2002, 106, 1504-1510.	2.5	85
104	Electrophilic Additions to a 2-Methylenebicyclo[2.1.1]hexane System: Probing Face Selectivity for Electrostatic and Orbital Effects. Organic Letters, 2002, 4, 2297-2300.	4.6	12
105	Exciplex emission from the mixed dimer of naphthalene and 2-cyanonaphthalene in a supersonic jet. Physical Chemistry Chemical Physics, 2002, 4, 2162-2168.	2.8	5
106	Century of Nobel Prizes. Resonance, 2002, 7, 59-65.	0.3	1
107	H <sub>2</sub> complexes of acetylene-benzene: a matrix isolation and computational study. Journal of Molecular Structure, 2002, 613, 209-222.	3.6	63
108	Revisiting Markovnikov Addition to Alkenes via Molecular Electrostatic Potential. Journal of Organic Chemistry, 2001, 66, 6883-6890.	3.2	66

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109	Structure and Stability of Water Clusters (H <sub>2</sub> O) <sub>n</sub> , n = 8~20: An Ab Initio Investigation. Journal of Physical Chemistry A, 2001, 105, 10525-10537.	2.5	459
110	Century of Nobel Prizes. Resonance, 2001, 6, 36-43.	0.3	3
111	Theoretical investigations on structure, electrostatic potentials and vibrational frequencies of diglyme and Li <sup>+</sup> (diglyme) conformers. Chemical Physics Letters, 2001, 344, 527-535.	2.6	16
112	Polarization-corrected molecular electrostatic potential for the cation binding problem. Chemical Physics Letters, 2001, 340, 604-610.	2.6	5
113	Molecular Electrostatic Potential and Electron Density Topography: Structure and Reactivity of (substituted arene)Cr(CO) <sub>3</sub> Complexes. Organometallics, 2000, 19, 3008-3015.	2.3	63
114	Electrostatics for Exploring Hydration Patterns of Molecules. 3. Uracil. Journal of Physical Chemistry A, 2000, 104, 8976-8982.	2.5	74
115	Does a Stacked DNA Base Pair Hydrate Better than a Hydrogen-Bonded One? An ab Initio Study. Journal of Physical Chemistry A, 2000, 104, 10887-10894.	2.5	53
116	Topography of Atomic and Molecular Scalar Fields. Computational Chemistry - Reviews of Current Trends, 1999, , 1-53.	0.4	7
117	Ab Initio Structure and Vibrational Frequencies of (CF <sub>3</sub> SO <sub>2</sub> ) <sub>2</sub> N-Li <sup>+</sup> Ion Pairs. Journal of Physical Chemistry A, 1999, 103, 7474-7480.	2.5	110
118	Electrostatics in chemistry. Resonance, 1999, 4, 11-20.	0.3	4
119	Electrostatics in chemistry. Resonance, 1999, 4, 8-19.	0.3	4
120	Electrostatics in chemistry. Resonance, 1999, 4, 14-23.	0.3	3
121	Electrostatics in chemistry. Resonance, 1999, 4, 40-51.	0.3	0
122	Clar's Aromatic Sextet Theory Revisited via Molecular Electrostatic Potential Topography. Journal of Organic Chemistry, 1999, 64, 2505-2512.	3.2	127
123	Molecular Electrostatics for Exploring Complexes of Carbonyl Compounds and Hydrogen Fluoride. Journal of Physical Chemistry A, 1999, 103, 3512-3517.	2.5	27
124	Complexes of ammonia with propane and cyclopropane: electrostatic guidelines for ab initio treatment. Theoretical Chemistry Accounts, 1998, 100, 300-306.	1.4	6
125	Face selectivity in electrophilic additions to methylenenorbornanes: relative importance of through-space, through-bond and electrostatic interactions. Chemical Communications, 1998, , 975-976.	4.1	13
126	A Novel Electrostatic Approach to Substituent Constants: Doubly Substituted Benzenes. Journal of the American Chemical Society, 1998, 120, 7049-7055.	13.7	95



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127	Polarization-Corrected Electrostatic Potential for Probing Cation Binding Patterns of Molecules. 1. Saturated Hydrocarbons. <i>Journal of the American Chemical Society</i> , 1998, 120, 7056-7062.	13.7	24
128	Electrostatic Insights into the Molecular Hydration Process: A Case Study of Crown Ethers. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9987-9992.	2.5	57
129	Patterns in hydrogen bonding via electrostatic potential topography. <i>Journal of Chemical Physics</i> , 1997, 107, 5625-5626.	3.0	57
130	Conformational and Electrostatic Properties of Naphthazarin, Juglone, and Naphthoquinone: An Ab Initio Theoretical Study. <i>Cancer Investigation</i> , 1997, 15, 531-541.	1.3	5
131	Electronic Perturbations of the Aromatic Nucleus: Hammett Constants and Electrostatic Potential Topography. <i>Journal of Organic Chemistry</i> , 1997, 62, 2625-2627.	3.2	82
132	Electrostatic Potential as a Harbinger of Cation Coordination: CF <sub>3</sub> SO <sub>3</sub> <sup>-</sup> Ion as a Model Example. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5678-5686.	2.5	37
133	Structure and Stability of DNA Base Trimers: An Electrostatic Approach. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9657-9662.	2.6	54
134	Complementary Electrostatics for the Study of DNA Base-Pair Interactions. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3298-3303.	2.6	76
135	How reliable are topographical characteristics of Hartree-Fock level molecular electron momentum densities?. <i>Chemical Physics Letters</i> , 1997, 274, 255-263.	2.6	12
136	Electron localization in molecules. A comparative study of scalar fields. <i>Computational and Theoretical Chemistry</i> , 1996, 361, 83-91.	1.5	20
137	Personal computer-based visualization of three-dimensional scalar and vector fields: An application to molecular graphics. <i>Journal of Molecular Graphics</i> , 1996, 14, 19-22.	1.1	7
138	Molecular Recognition via Electrostatic Potential Topography. <i>Theoretical and Computational Chemistry</i> , 1996, 3, 219-255.	0.4	23
139	Basis set dependence of the molecular electrostatic potential topography. A case study of substituted benzenes. <i>Chemical Physics Letters</i> , 1995, 239, 273-281.	2.6	60
140	Structure, energetics and bonding of diacetylene complexes with hydrogen fluoride. A theoretical investigation. <i>Chemical Physics Letters</i> , 1995, 247, 95-100.	2.6	19
141	Topographical Analysis of Electron Density and Molecular Electrostatic Potential for Cyclopropa- and Cyclobutabenzene. <i>Journal of the American Chemical Society</i> , 1995, 117, 9559-9563.	13.7	21
142	Molecular Tailoring Approach for Simulation of Electrostatic Properties. <i>The Journal of Physical Chemistry</i> , 1994, 98, 9165-9169.	2.9	173
143	Closo-Boranes, -Carboranes, and -Silaboranes: A Topographical Study Using Electron Density and Molecular Electrostatic Potential. <i>The Journal of Physical Chemistry</i> , 1994, 98, 6445-6451.	2.9	25
144	Molecular electrostatic charge models: A topographical approach. <i>International Journal of Quantum Chemistry</i> , 1994, 49, 397-407.	2.0	7

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145	Comment on "Computing molecular electrostatic potentials with the PRISM algorithm", Chemical Physics Letters, 1994, 218, 593-594.	2.6	1
146	Electrostatic vs. Orbital Control of Facial Selectivities in $\pi$ Systems: Experimental and Theoretical Study of Electrophilic Additions to 7-Isopropylidenenorbornanes. Angewandte Chemie International Edition in English, 1994, 33, 1390-1392.	4.4	34
147	Elektrostatisch oder Orbital-kontrollierte Seitendifferenzierung von $\pi$ -Elektronensystemen: experimentelle und theoretische Untersuchung elektrophiler Additionen an 7-Isopropylidennorbornane. Angewandte Chemie, 1994, 106, 1433-1435.	2.0	1
148	A general parallel solution to the integral transformation and second-order Møller-Plesset energy evaluation on distributed memory parallel machines. Journal of Chemical Physics, 1994, 100, 1303-1307.	3.0	45
149	Electrophilic Additions to 7-Methylenenorbornenes and 7-Isopropylidenenorbornenes: Can Remote Substituents Swamp Electrostatic Control of $\pi$ -face Selectivity?. Journal of Organic Chemistry, 1994, 59, 1953-1955.	3.2	43
150	A "critical" appraisal of electrostatic charge models for molecules. Journal of Chemical Sciences, 1994, 106, 303-314.	1.5	10
151	Topography-driven electrostatic charge models for molecules. Chemical Physics Letters, 1993, 204, 350-358.	2.6	17
152	Development of a restricted Hartree-Fock program INDMOL on PARAM: A highly parallel computer. Journal of Computational Chemistry, 1993, 14, 445-451.	3.3	31
153	Probing chemical reactions in momentum space. Journal of the American Chemical Society, 1993, 115, 7434-7438.	13.7	14
154	Density-based electron localization function via nonlocal density approximation. Journal of Chemical Physics, 1993, 98, 3574-3576.	3.0	12
155	Radii of monovalent atomic ions. Journal of Chemical Physics, 1993, 99, 3149-3150.	3.0	8
156	Visualization of Shapes of Molecular Anions. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 137-140.	1.5	5
157	On the Topography of Electron Momentum Densities of Linear Molecules. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 145-150.	1.5	18
158	Molecular electrostatic potentials: A topographical study. Journal of Chemical Physics, 1992, 96, 5253-5260.	3.0	204
159	Deriving chemical parameters from electrostatic potential maps of molecular anions. Inorganic Chemistry, 1992, 31, 2279-2281.	4.0	51
160	Topographical view of molecular electron-momentum densities. Physical Review A, 1992, 45, 4399-4406.	2.5	19
161	Molecular electrostatics. A comprehensive topographical approach. Chemical Physics Letters, 1992, 200, 373-378.	2.6	106
162	Some investigations of symmetry and extremal properties of molecular electron momentum densities. Journal of Chemical Physics, 1991, 94, 8040-8046.	3.0	21

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163	Shapes and sizes of molecular anions via topographical analysis of electrostatic potential. Journal of Chemical Physics, 1991, 94, 4384-4390.	3.0	174
164	Reply to the comment on: Maximal and minimal characteristics of molecular electrostatic potentials: Some further extensions. Journal of Chemical Physics, 1991, 94, 8639-8639.	3.0	15
165	Computation of molecular electrostatic potential: An efficient algorithm and parallelization. Computers & Chemistry, 1991, 15, 203-206.	1.2	10
166	Bounds to Atomic and Molecular Energy Functionals. Advances in Quantum Chemistry, 1991, 22, 211-300.	0.8	19
167	A general parallel algorithm for the generation of molecular electrostatic potential maps. Chemical Physics Letters, 1990, 175, 307-312.	2.6	20
168	Cross-entropy minimization for refinement of Gaussian basis sets. Chemical Physics Letters, 1990, 166, 445-451.	2.6	27
169	Application of rigorous bounds for efficient evaluation of molecular electrostatic potentials. Chemical Physics Letters, 1990, 170, 271-276.	2.6	17
170	Atomic and molecular diamagnetic susceptibilities from Compton scattering data. Journal of Chemical Physics, 1990, 92, 4327-4330.	3.0	5
171	Maximal and minimal characteristics of molecular electrostatic potentials. Journal of Chemical Physics, 1990, 93, 1770-1773.	3.0	179
172	Momentum space atomic first-order density matrices and $\tilde{\epsilon}$ -exchange-only $\hat{\epsilon}^{\text{TM}}$ correlation factors. Physical Review A, 1990, 42, 2622-2626.	2.5	3
173	Reduced first-order density matrices and $\tilde{\epsilon}$ -exchange-only $\hat{\epsilon}^{\text{TM}}$ correlation factors for some closed-shell atomic systems. Physical Review A, 1989, 40, 4224-4231.	2.5	13
174	Rigorous bounds to molecular electron repulsion and electrostatic potential integrals. Journal of Chemical Physics, 1989, 91, 3596-3602.	3.0	12
175	Use of second-moment constraints for the refinement of determinantal wave functions. Physical Review A, 1988, 38, 487-489.	2.5	0
176	Use of a nonlocal density approximation for transformation from electron density to electron momentum density. Journal of Chemical Physics, 1987, 86, 2224-2228.	3.0	13
177	Nonlocal-density approximation for exploring kinetic energy anisotropies. Physical Review A, 1987, 36, 4155-4162.	2.5	3
178	Rigorous relationships among quantum-mechanical kinetic energy and atomic information entropies: Upper and lower bounds. Physical Review A, 1987, 36, 1932-1935.	2.5	85
179	Coulomb energy, total X-ray scattering intensities and average electron densities. Chemical Physics Letters, 1987, 142, 205-208.	2.6	7
180	On the similarity between molecular electron densities, electrostatic potentials and bare nuclear potentials. Chemical Physics Letters, 1986, 130, 515-521.	2.6	22

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181	The average electron momentum density and rigorous bounds to average electron densities for atoms and molecules. <i>Chemical Physics Letters</i> , 1986, 132, 535-540.	2.6	27
182	Some rigorous inequalities among the Weizsacker correction and atomic $\langle r^{-n} \rangle$ and $\langle p^n \rangle$ values. <i>Journal of Chemical Physics</i> , 1986, 84, 7051-7052.	3.0	33
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