

Miklos Kertesz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6190498/publications.pdf>

Version: 2024-02-01

182
papers

10,433
citations

44069

48
h-index

36028

97
g-index

187
all docs

187
docs citations

187
times ranked

9286
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular tetrominoes: selective masking of the donor π -face to control the configuration of donor-acceptor complexes. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 375-386.	2.8	2
2	Quinonoid versus Aromatic π -Conjugated Oligomers and Polymers and Their Diradical Characters. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5302-5310.	3.1	3
3	Splitting the Ring: Impact of <i>Ortho</i> and <i>Meta</i> π Conjugation Pathways through Disjointed [8]Cycloparaphenylene Electronic Materials. <i>Journal of the American Chemical Society</i> , 2022, 144, 4611-4622.	13.7	12
4	NMR spectral fingerprint patterns as diagnostics for the unambiguous configurational analysis of the classic organogelator 1,3:2,4-dibenzylidene-sorbitol (DBS) and its derivatives. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 608-613.	1.9	3
5	Impact of the Aryl Amphiphile Hydrophobe Size on Controlling the π -Conjugated Microcrystal Growth along the π -Stack Direction. <i>Crystal Growth and Design</i> , 2021, 21, 2465-2473.	3.0	4
6	Unexpected Charge Effects Strengthen π -Stacking Pancake Bonding. <i>Jacs Au</i> , 2021, 1, 1647-1655.	7.9	15
7	Quinonoid vs. aromatic structures of heteroconjugated polymers from oligomer calculations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11431-11439.	2.8	5
8	Linear and Radial Conjugation in Extended π -Electron Systems. <i>Journal of the American Chemical Society</i> , 2020, 142, 2293-2300.	13.7	32
9	The generality of the GUGA MRCI approach in COLUMBUS for treating complex quantum chemistry. <i>Journal of Chemical Physics</i> , 2020, 152, 134110.	3.0	42
10	Pancake Bonding: An Unusual π -Stacking Interaction. <i>Chemistry - A European Journal</i> , 2019, 25, 400-416.	3.3	171
11	Molecules under Pressure: The Case of [n]Cycloparaphenylenes. <i>Chemistry of Materials</i> , 2019, 31, 6443-6452.	6.7	5
12	Pancake Bonding in π -Stacked Trimers in a Salt of Tetrachloroquinone Anion. <i>Chemistry - A European Journal</i> , 2018, 24, 8292-8297.	3.3	26
13	Probing semiconductivity in crystals of stable semiquinone radicals: organic salts of 5,6-dichloro-2,3-dicyanosemiquinone (DDQ) radical anions. <i>CrystEngComm</i> , 2018, 20, 1862-1873.	2.6	18
14	Sigma versus π -Dimerization Modes of Triangulene. <i>Chemistry - A European Journal</i> , 2018, 24, 6140-6147.	3.3	15
15	Mechanochemistry in [6]Cycloparaphenylene: A Combined Raman Spectroscopy and Density Functional Theory Study. <i>ChemPhysChem</i> , 2018, 19, 1903-1916.	2.1	9
16	Cethrene: The Chameleon of Woodward-Hoffmann Rules. <i>Journal of Organic Chemistry</i> , 2018, 83, 4769-4774.	3.2	33
17	Multicentric two-electron covalent bonding (pancake bonding) between semiquinone radicals determines bulk properties. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e80-e80.	0.1	1
18	Intramolecular Pancake Bonding in Helical Structures. <i>Chemistry - A European Journal</i> , 2017, 23, 7381-7381.	3.3	0

#	ARTICLE	IF	CITATIONS
19	Pancake Bond Orders of a Series of π -Stacked Triangulene Radicals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10188-10191.	13.8	46
20	Intramolecular Pancake Bonding in Helical Structures. <i>Chemistry - A European Journal</i> , 2017, 23, 7474-7482.	3.3	20
21	Photophysics of N,N-dimethyl-3-(1-indolyl)propan-1-ammonium chloride and related derivatives. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1546-1555.	2.9	0
22	High-Pressure Chemistry and the Mechanochemical Polymerization of [5]Cycloparaphenylene. <i>Chemistry - A European Journal</i> , 2017, 23, 16593-16604.	3.3	10
23	Pancake Bond Orders of a Series of π -Stacked Triangulene Radicals. <i>Angewandte Chemie</i> , 2017, 129, 10322-10325.	2.0	8
24	Validation of density functionals for pancake-bonded π -dimers; dispersion is not enough. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24761-24768.	2.8	32
25	The Raman fingerprint of cyclic conjugation: the case of the stabilization of cations and dications in cycloparaphenylenes. <i>Chemical Science</i> , 2016, 7, 3494-3499.	7.4	21
26	Reversible Dimerization and Polymerization of a Janus Diradical To Produce Labile C-C Bonds and Large Chromic Effects. <i>Angewandte Chemie</i> , 2016, 128, 14783-14788.	2.0	15
27	Reversible Dimerization and Polymerization of a Janus Diradical To Produce Labile C-C Bonds and Large Chromic Effects. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14563-14568.	13.8	47
28	From linear to cyclic oligoparaphenylenes: electronic and molecular changes traced in the vibrational Raman spectra and reformulation of the bond length alternation pattern. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11683-11692.	2.8	30
29	Fluxional π -Bonds of the 2,5,8-Trimethylphenalenyl Dimer: Direct Observation of the Sixfold π -Bond Shift via a π -Dimer. <i>Journal of the American Chemical Society</i> , 2016, 138, 4665-4672.	13.7	92
30	Xe-bearing hydrocarbon ions: Observation of Xe.acetylene ⁺ and Xe.benzene ⁺ radical cations and calculations of their ground state structures. <i>Chemical Physics Letters</i> , 2016, 649, 8-14.	2.6	1
31	Hetero- π -Dimers of Phenalenyls. <i>Chemistry - A European Journal</i> , 2015, 21, 18230-18236.	3.3	38
32	Nitrogen Doping Enables Covalent-Like π - π Bonding between Graphenes. <i>Nano Letters</i> , 2015, 15, 5482-5491.	9.1	31
33	Concave or convex π -dimers: the role of the pancake bond in substituted phenalenyl radical dimers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23963-23969.	2.8	40
34	Helical molecular redox actuators with pancake bonds?. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	1.4	13
35	Study of the Diradicaloid Character in a Prototypical Pancake-Bonded Dimer: The Stacked Tetracyanoethylene (TCNE) Anion Dimer and the Neutral K ₂ TCNE ₂ Complex. <i>ChemPhysChem</i> , 2014, 15, 165-176.	2.1	43
36	Properties of Sizeable [n]Cycloparaphenylenes as Molecular Models of Single-Wall Carbon Nanotubes Elucidated by Raman Spectroscopy: Structural and Electron-Transfer Responses under Mechanical Stress. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7033-7037.	13.8	77

#	ARTICLE	IF	CITATIONS
37	Divacancies in diamond: a stepwise formation mechanism. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1515-1521.	2.8	19
38	Double Pancake Bonds: Pushing the Limits of Strong π - π Stacking Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 12958-12965.	13.7	74
39	Evidence of π - and π -Dimerization in a Series of Phenalenyls. <i>Journal of the American Chemical Society</i> , 2014, 136, 18009-18022.	13.7	150
40	Rotational Barrier in Phenalenyl Neutral Radical Dimer: Separating Pancake and van der Waals Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 5539-5542.	13.7	120
41	Chameleon-like behaviour of cyclo[n]paraphenylenes in complexes with C_{70} : on their impressive electronic and structural adaptability as probed by Raman spectroscopy. <i>Faraday Discussions</i> , 2014, 173, 157-171.	3.2	30
42	Volume Change during Thermal [4 + 4] Cycloaddition of [2.2] (9,10)Anthracenophane. <i>Journal of the American Chemical Society</i> , 2013, 135, 13720-13727.	13.7	16
43	Binding Interactions in Dimers of Phenalenyl and Closed-Shell Analogues. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3642-3649.	2.5	35
44	On the Anisotropy of van der Waals Atomic Radii of O, S, Se, F, Cl, Br, and I. <i>Journal of Physical Chemistry A</i> , 2013, 117, 14184-14190.	2.5	33
45	Modeling of Chemical Reactivity of Carbon Nanotubes: A Review. , 2012, , 173-208.		0
46	Bonds or not bonds? Pancake bonding in 1,2,3,5-dithiadiazolyl and 1,2,3,5-diselenadiazolyl radical dimers and their derivatives. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10713.	2.8	72
47	Cyclo-biphenalenyl Biradicaloid Molecular Materials: Conformation, Tautomerization, Magnetism, and Thermochromism. <i>Chemistry of Materials</i> , 2011, 23, 874-885.	6.7	17
48	Conformations of Antipyridines. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4832-4839.	2.5	2
49	Charge Shift Bonding Concept in Radical π -Dimers. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13942-13949.	2.5	31
50	Simulations of large multi-atom vacancies in diamond. <i>Diamond and Related Materials</i> , 2010, 19, 1153-1162.	3.9	7
51	Conformational Preferences of β -Carotene in the Confined Spaces inside Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12139-12144.	3.1	13
52	Is There a Lower Limit to the CC Bonding Distances in Neutral Radical π -Dimers? The Case of Phenalenyl Derivatives. <i>Journal of the American Chemical Society</i> , 2010, 132, 10648-10649.	13.7	83
53	Why is there no in-plane H-atom transfer from aryloxy radicals? A theoretical and experimental investigation. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 1203-1211.	2.9	3
54	The $[V^{\bullet\bullet}C_6-C_6^{\bullet\bullet}V]$ Divacancy and the Interstitial Defect in Diamond: Vibrational Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9563-9567.	3.1	30

#	ARTICLE	IF	CITATIONS
55	Fluxional σ -bonds of 2,5,8-tri-tert-butyl-1,3-diazaphenalenyl dimers: stepwise [3,3], [5,5] and [7,7] sigmatropic rearrangements via σ -dimer intermediates. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5084.	2.8	32
56	Characterization of large vacancy clusters in diamond from a generational algorithm using tight binding density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14017.	2.8	11
57	Bimolecular hydrogen transfer in phenalene by a stepwise ene-like reaction mechanism. <i>Chemical Communications</i> , 2010, 46, 4282.	4.1	5
58	Energetics of linear carbon chains in one-dimensional restricted environment. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 425-430.	2.8	28
59	Ladder-Type Polybenzazine Based on Intramolecular π - π Interactions: A Theoretical Study of a Small-Bandgap Polymer. <i>Macromolecules</i> , 2009, 42, 6123-6127.	4.8	16
60	Roles of Conformational Restrictions of a Bismalonate in the Interactions with a Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14184-14194.	3.1	16
61	Molecular Actuators Designed with π Hemibonds Attached to a Conformationally Flexible Pivot. <i>Chemistry of Materials</i> , 2009, 21, 2149-2157.	6.7	4
62	Low-Bandgap Pyrazine Polymers: Ladder-Type Connectivity by Intramolecular π - π Interactions and Hydrogen Bonds. <i>Macromolecules</i> , 2009, 42, 2309-2312.	4.8	21
63	Linear C_n Clusters: Are They Acetylenic or Cumulenic?. <i>Journal of Physical Chemistry A</i> , 2008, 112, 146-151.	2.5	49
64	Crystal packing of TCNQ anion π -radicals governed by intermolecular covalent π - π bonding: DFT calculations and statistical analysis of crystal structures. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2625.	2.8	61
65	Electronic Structure of Helicenes, C_2S Helicenes, and Thiaheterohelicenes. <i>Chemistry of Materials</i> , 2008, 20, 3266-3277.	6.7	55
66	Single-Walled Carbon Nanotubes. , 2008, , 4085-4095.		0
67	Intermolecular Covalent π - π Bonding Interaction Indicated by Bond Distances, Energy Bands, and Magnetism in Biphenalenyl Biradicaloid Molecular Crystal. <i>Journal of the American Chemical Society</i> , 2007, 129, 1634-1643.	13.7	145
68	Application of a Novel Linear/Exponential Hybrid Force Field Scaling Scheme to the Longitudinal Raman Active Mode of Polyynes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2434-2441.	2.5	56
69	Theoretical Design of Low Band Gap Conjugated Polymers through Ladders with Acetylenic Crosspieces. <i>Macromolecules</i> , 2007, 40, 6740-6747.	4.8	15
70	Theoretical Analysis of Intermolecular Covalent π - π Bonding and Magnetic Properties of Phenalenyl and spiro-Biphenalenyl Radical π -Dimers. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6304-6315.	2.5	39
71	Confinement effects on site-preferences for cycloadditions into carbon nanotubes. <i>Chemical Physics Letters</i> , 2007, 444, 155-160.	2.6	34
72	Local Modifications of Single-Wall Carbon Nanotubes Induced by Bond Formation with Encapsulated Fullerenes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1099-1109.	2.6	32

#	ARTICLE	IF	CITATIONS
73	Cooperative Behaviors in Carbene Additions through Local Modifications of Nanotube Surfaces. <i>Chemistry of Materials</i> , 2007, 19, 1028-1034.	6.7	32
74	Bond Length Alternation and Energy Band Gap of Polyynes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9771-9774.	2.5	123
75	Stepwise Cope Rearrangement of Cyclo-biphenalenyl via an Unusual Multicenter Covalent π -Bonded Intermediate. <i>Journal of the American Chemical Society</i> , 2006, 128, 7277-7286.	13.7	20
76	One-Dimensional Metallic Conducting Pathway of Cyclohexyl-Substituted Spiro-Biphenalenyl Neutral Radical Molecular Crystal. <i>Journal of the American Chemical Society</i> , 2006, 128, 1418-1419.	13.7	28
77	Double walled carbon nanotube with the smallest inner diameter: a first principles study. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3464-3467.	1.5	3
78	Application of the linear/exponential hybrid force field scaling scheme to the bond length alternation modes of polyacetylene. <i>Chemical Physics Letters</i> , 2006, 432, 356-361.	2.6	4
79	Conjugated Polymers and Aromaticity. <i>ChemInform</i> , 2006, 37, no.	0.0	0
80	Covalent Bond Formation in Defected Nanopeapods Induces Local Deformations on Nanotube Walls. <i>Materials Research Society Symposia Proceedings</i> , 2006, 963, 1.	0.1	0
81	Simulations of Multi-atom Vacancies in Diamond. <i>Materials Research Society Symposia Proceedings</i> , 2006, 978, .	0.1	0
82	Linear carbon chain in the interior of a single walled carbon nanotube. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
83	Bond-length alternation and charge transfer in a linear carbon chain encapsulated within a single-walled carbon nanotube. <i>Physical Review B</i> , 2005, 72, .	3.2	83
84	Electronic Structures and Charge Transport Properties of the Organic Semiconductor Bis[1,2,5]thiadiazolo-p-quinobis(1,3-dithiole), BTQBT, and Its Derivatives. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12891-12898.	2.6	23
85	Conjugated Polymers and Aromaticity. <i>Chemical Reviews</i> , 2005, 105, 3448-3481.	47.7	447
86	Validation of intermolecular transfer integral and bandwidth calculations for organic molecular materials. <i>Journal of Chemical Physics</i> , 2005, 122, 234707.	3.0	76
87	Intermolecular transfer integrals for organic molecular materials: can basis set convergence be achieved?. <i>Chemical Physics Letters</i> , 2004, 390, 110-115.	2.6	137
88	Individualities and average behavior in the physical properties of small diameter single-walled carbon nanotubes. <i>Carbon</i> , 2004, 42, 971-978.	10.3	32
89	Bandgap calculations for conjugated polymers. <i>Synthetic Metals</i> , 2004, 141, 171-177.	3.9	154
90	Performance of the Vienna ab initio simulation package (VASP) in chemical applications. <i>Computational and Theoretical Chemistry</i> , 2003, 624, 37-45.	1.5	275

#	ARTICLE	IF	CITATIONS
91	The geometry and the radial breathing mode of carbon nanotubes: beyond the ideal behaviour. <i>New Journal of Physics</i> , 2003, 5, 125-125.	2.9	154
92	Spin Crossover of Spiro-Biphenalenyl Neutral Radical Molecular Conductors. <i>Journal of the American Chemical Society</i> , 2003, 125, 13334-13335.	13.7	42
93	Variations of the Geometries and Band Gaps of Single-Walled Carbon Nanotubes and the Effect of Charge Injection. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6924-6931.	2.6	88
94	Dimensional change as a function of charge injection in graphite intercalation compounds: a density functional theory study. <i>Physical Review B</i> , 2003, 68, .	3.2	24
95	Dimensional changes as a function of charge injection for trans-polyacetylene: A density functional theory study. <i>Journal of Chemical Physics</i> , 2002, 117, 7691-7697.	3.0	19
96	Vibrational Raman Spectra of C70 and C706- Studied by Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6381-6386.	2.5	29
97	Dimensional Changes as a Function of Charge Injection in Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2002, 124, 15076-15080.	13.7	87
98	¹³ C NMR spectra for IPR isomers of fullerene C86. <i>Chemical Physics</i> , 2002, 276, 107-114.	1.9	58
99	Identification for IPR Isomers of Fullerene C82 by Theoretical ¹³ C NMR Spectra Calculated by Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5468-5472.	2.5	66
100	Isomer Identification for Fullerene C84 by ¹³ C NMR Spectrum: A Density-Functional Theory Study. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5212-5220.	2.5	65
101	Theoretical ¹³ C NMR spectra of IPR isomers of fullerene C80: a density functional theory study. <i>Chemical Physics Letters</i> , 2000, 328, 387-395.	2.6	34
102	Theoretical ¹³ C NMR Spectra of IPR Isomers of Fullerenes C60, C70, C72, C74, C76, and C78 Studied by Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2000, 104, 7398-7403.	2.5	101
103	Theoretical evidence for the major isomers of fullerene C84 based on ¹³ C NMR chemical shifts. <i>New Journal of Chemistry</i> , 2000, 24, 741-743.	2.8	18
104	Vibrational Assignment of All 46 Fundamentals of C60 and C606: Scaled Quantum Mechanical Results Performed in Redundant Internal Coordinates and Compared to Experiments. <i>Journal of Physical Chemistry A</i> , 2000, 104, 102-112.	2.5	86
105	Carbon Nanotube Actuators. <i>Science</i> , 1999, 284, 1340-1344.	12.6	2,343
106	Argon-matrix-isolation Raman spectra and density functional study of 1,3-butadiene conformers. <i>Theoretical Chemistry Accounts</i> , 1999, 102, 196-206.	1.4	26
107	Conformational Fingerprints in the IR and Raman Spectra of Oligoanilines: A Combined Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 1999, 11, 855-857.	6.7	13
108	Is a 1.90 Å... C-C bond length in polymeric fullerenes possible?. <i>Chemical Physics Letters</i> , 1998, 282, 318-324.	2.6	17

#	ARTICLE	IF	CITATIONS
109	New Interpretation of the Valence Tautomerism of 1,6-Methano[10]annulenes and Its Application to Fullerene Derivatives. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3429-3437.	2.5	22
110	Bond length alternation and aromaticity in large annulenes. <i>Journal of Chemical Physics</i> , 1998, 108, 6681-6688.	3.0	90
111	Evidence of quinonoid structures in the vibrational spectra of thiophene based conducting polymers: Poly(thiophene), poly(thieno[3,4-b]benzene), and poly(thieno[3,4-b]pyrazine). <i>Journal of Chemical Physics</i> , 1997, 106, 5541-5553.	3.0	28
112	The effects of electron correlation on the degree of bond alternation and electronic structure of oligomers of polyacetylene. <i>Journal of Chemical Physics</i> , 1997, 107, 6712-6721.	3.0	143
113	Consistencies between experiments and quantum calculations of strained C-C single bond lengths. <i>Chemical Communications</i> , 1997, , 2199-2200.	4.1	24
114	Conformational Studies of Vibrational Properties and Electronic States of Leucoemeraldine Base and Its Oligomers. <i>Macromolecules</i> , 1997, 30, 620-630.	4.8	34
115	Can carbon monoxide polymerize? A theoretical investigation of polyketone. <i>Chemical Communications</i> , 1997, , 2011.	4.1	16
116	Do Localized Structures of [14]- and [18]Annulenes Exist?. <i>Journal of the American Chemical Society</i> , 1997, 119, 11994-11995.	13.7	41
117	Conformational Information from Vibrational Spectra of Styrene, trans-Stilbene, and cis-Stilbene. <i>Journal of Physical Chemistry A</i> , 1997, 101, 3823-3831.	2.5	291
118	Single-Bond Torsional Potentials in Conjugated Systems: A Comparison of ab Initio and Density Functional Results. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7426-7433.	2.5	254
119	Conformational information from vibrational spectra of polyaniline. <i>Synthetic Metals</i> , 1997, 85, 1073-1076.	3.9	15
120	Limitations of current density functional theories for the description of partial π -bond breaking. <i>Chemical Physics Letters</i> , 1997, 276, 266-268.	2.6	52
121	A new partition of the atomic polar tensor: the benzene molecule. <i>Chemical Physics Letters</i> , 1996, 263, 697-702.	2.6	5
122	Density Functional Studies of Vibrational Properties of HCN, H ₂ O, CH ₂ O, CH ₄ , and C ₂ H ₄ . <i>The Journal of Physical Chemistry</i> , 1996, 100, 16530-16537.	2.9	21
123	Structure and Electronic Structure of Low-Band-Gap Ladder Polymers. <i>Macromolecules</i> , 1995, 28, 1475-1480.	4.8	39
124	Interpretation of the vibrational spectra of planarized poly-p-phenylene. <i>Synthetic Metals</i> , 1995, 69, 683-684.	3.9	20
125	The aromatic - quinonoid transition in conducting polymers. <i>Synthetic Metals</i> , 1995, 69, 641-644.	3.9	10
126	Low bandgap ladder polymers. <i>Synthetic Metals</i> , 1995, 69, 699-700.	3.9	50

#	ARTICLE	IF	CITATIONS
127	Theoretical prediction of the vibrational spectrum of fluorene and planarized poly(p-phenylene). The Journal of Physical Chemistry, 1994, 98, 12223-12231.	2.9	44
128	Role of charge transfer and quinonoid structure in the Raman spectrum of doped poly(p-phenylene). Journal of the American Chemical Society, 1994, 116, 9269-9274.	13.7	34
129	Ab Initio Oligomer Approach to Vibrational Spectra of Polymers: Comparison of Helical and Planar Poly(p-phenylene). Macromolecules, 1994, 27, 762-770.	4.8	66
130	Metal oligo-yne polymers: electronic structures of $[-(L)nMC.tplbond.CRC.tplbond.C]_x$ polymers. Inorganic Chemistry, 1993, 32, 732-740.	4.0	118
131	The effect of side-group substitution on the energy gaps of phenylene and thienylene oligomers and polymers. Synthetic Metals, 1992, 47, 179-186.	3.9	14
132	Electronic structures of heterocyclic ladder polymers; polyphenothiazine, polyphenoxazine, and polyphenoquinoxaline. Chemistry of Materials, 1992, 4, 378-383.	6.7	32
133	Geometrical and electronic structures of π -conjugated silicon ring polymers. Organometallics, 1992, 11, 3178-3184.	2.3	29
134	Assignment of the vibrational spectra of polysilane and its oligomers. Macromolecules, 1992, 25, 1103-1108.	4.8	21
135	Geometrical and electronic structures of a benzimidazobenzophenanthroline-type ladder polymer (BBL). Macromolecules, 1992, 25, 5424-5429.	4.8	35
136	AB initio study of the dynamical properties of polythiophene. Synthetic Metals, 1991, 43, 3491-3496.	3.9	24
137	Conformations and electronic structures of poly(ketene) and related conjugated polymers: reduction of the n - π^* band gap. Journal of the American Chemical Society, 1991, 113, 4404-4409.	13.7	6
138	Energetics and geometry of conducting polymers from oligomers. The Journal of Physical Chemistry, 1991, 95, 7680-7681.	2.9	48
139	Extraction of polymer properties from oligomer calculations. The Journal of Physical Chemistry, 1990, 94, 5172-5179.	2.9	38
140	Helical Peierls distortion: Formation of helices of polyketone and polyisocyanide. Chemical Physics Letters, 1990, 169, 445-449.	2.6	8
141	Theoretical evaluation of Young's moduli of polymers. Physical Review B, 1990, 41, 11368-11378.	3.2	10
142	Dependence of Young's modulus of trans-polyacetylene upon charge transfer. Physical Review Letters, 1990, 64, 3031-3034.	7.8	13
143	Quantum-mechanical oligomer approach for the calculation of vibrational spectra of polymers. Journal of Chemical Physics, 1990, 93, 5257-5266.	3.0	33
144	Importance of energetics in the design of small bandgap conducting polymers. Chemistry of Materials, 1990, 2, 526-530.	6.7	45

#	ARTICLE	IF	CITATIONS
145	Bonding in crystals containing one-dimensional bridged and unbridged group 11 and 12 linear, zigzag and helical chains. <i>Inorganic Chemistry</i> , 1990, 29, 2568-2575.	4.0	38
146	Superdegeneracies in Extended Systems; a Prerequisite for $\tilde{\epsilon}$ Ferromagnets?. <i>Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics</i> , 1989, 176, 115-123.	0.3	6
147	Inorganic rings, intact and cleaved, between two metal fragments. <i>Journal of the American Chemical Society</i> , 1989, 111, 2030-2039.	13.7	59
148	Structure and electronic structure of polyacene. <i>International Journal of Quantum Chemistry</i> , 1989, 35, 305-313.	2.0	49
149	Electronic structure of small gap polymers. <i>Synthetic Metals</i> , 1989, 28, 545-552.	3.9	35
150	Two helical conformations of polythiophene, polypyrrole, and their derivatives. <i>Physical Review B</i> , 1989, 40, 9661-9670.	3.2	115
151	Chemisorption on metals: the method of moments point of view. <i>The Journal of Physical Chemistry</i> , 1989, 93, 3237-3240.	2.9	6
152	Helical Conformations of Conducting Polymers. <i>Materials Research Society Symposia Proceedings</i> , 1989, 173, 391.	0.1	0
153	Band structure calculation of extended poly(copper phthalocyanine) one-dimensional and two-dimensional polymers. <i>Inorganic Chemistry</i> , 1988, 27, 3672-3675.	4.0	35
154	The electronic structure of BC3. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 75.	2.0	12
155	Energy gap and bond length alternation in heterosubstituted narrow gap semiconducting polymers. <i>The Journal of Physical Chemistry</i> , 1987, 91, 2690-2692.	2.9	61
156	Bonding and electronic structure of conducting mercury networks: KHgC _{4n} graphite amalgams and Hg ₃ MF ₆ layers and chains. <i>Inorganic Chemistry</i> , 1987, 26, 2852-2857.	4.0	7
157	The effect of additional fused rings on the stabilities and the band gaps of heteroconjugated polymers. <i>International Journal of Quantum Chemistry</i> , 1987, 32, 163-170.	2.0	28
158	Ionic charge-transfer complexes. 2. Comparative ab initio and semiempirical studies on complexes of An ⁺ (An = aniline). <i>Journal of the American Chemical Society</i> , 1986, 108, 4391-4397.	13.7	9
159	Electronic structure of highly doped conducting polymers. <i>International Journal of Quantum Chemistry</i> , 1986, 29, 1165-1176.	2.0	8
160	Energy bands in solids: bonding, energy levels and orbitals. <i>International Reviews in Physical Chemistry</i> , 1985, 4, 125-164.	2.3	8
161	Changes of Lattice Geometries Upon Charge Transfer. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 126, 103-110.	0.8	25
162	Electronic structure and metallization of silicon. <i>Physical Review B</i> , 1984, 29, 1791-1797.	3.2	26

#	ARTICLE	IF	CITATIONS
163	The graphite-to-diamond transformation. <i>Journal of Solid State Chemistry</i> , 1984, 54, 313-319.	2.9	41
164	Octahedral vs. trigonal-prismatic coordination and clustering in transition-metal dichalcogenides. <i>Journal of the American Chemical Society</i> , 1984, 106, 3453-3460.	13.7	247
165	The gradient of the total energy for metals. <i>Chemical Physics Letters</i> , 1984, 106, 443-446.	2.6	5
166	Higher order Peierls distortion of one-dimensional carbon skeletons. <i>Solid State Communications</i> , 1983, 47, 97-102.	1.9	97
167	Hypothetical metallic allotrope of carbon. <i>Journal of the American Chemical Society</i> , 1983, 105, 4831-4832.	13.7	165
168	Ab initio numerical studies on density-matrix asymptotics in extended systems. <i>Physical Review B</i> , 1983, 27, 7583-7588.	3.2	14
169	Interpolation of singular energy bands. <i>Physical Review B</i> , 1982, 25, 7834-7835.	3.2	1
170	Electronic Structure of Polymers. <i>Advances in Quantum Chemistry</i> , 1982, , 161-214.	0.8	187
171	Change of C-C Bond Length in Layers of Graphite Upon Charge Transfer. <i>Materials Research Society Symposia Proceedings</i> , 1982, 20, 141.	0.1	4
172	Localization and delocalization: Distinction between through space and through bond interactions. <i>Journal of Chemical Physics</i> , 1982, 77, 2454-2459.	3.0	55
173	Electronic structure of long polyiodide chains. <i>Journal of the American Chemical Society</i> , 1982, 104, 5889-5893.	13.7	29
174	Change of geometry of polyacetylene upon charge transfer. <i>Chemical Physics Letters</i> , 1982, 90, 430-433.	2.6	42
175	Anisotropy of the dielectric constant of polyacetylene. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1981, 19, 743-747.	1.0	12
176	Smooth energy-band interpolation with gradient utilization. <i>Physical Review B</i> , 1981, 24, 6870-6879.	3.2	5
177	Need for electronic correlation calculations in polymers. <i>International Journal of Quantum Chemistry</i> , 1980, 18, 463-466.	2.0	0
178	Different orbitals for different spins for solids: Fully variational ab initio studies on hydrogen and carbon atomic chains, polyene, and poly(sulphur nitride). <i>Physical Review B</i> , 1979, 19, 2034-2040.	3.2	41
179	Structure of infinite polyenes: Ab initio quantum chemical study. <i>Journal of the Chemical Society Chemical Communications</i> , 1978, , 575-576.	2.0	19
180	Ab initio Hartree-Fock crystal orbital studies. Energy bands in polyene reconsidered. <i>Journal of Chemical Physics</i> , 1977, 67, 1180.	3.0	88

#	ARTICLE	IF	CITATIONS
181	Ab initio crystal orbital studies on linear chains of H atoms. <i>Theoretica Chimica Acta</i> , 1976, 41, 89-91.	0.8	35
182	Single-Walled Carbon Nanotubes: Geometries, Electronic Properties, and Actuation. , 0, , 4512-4521.		0