

Bih-Yaw Jin

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72
papers

1,180
citations

20
h-index

31
g-index

76
ext. papers

1,290
ext. citations

4.6
avg, IF

4.36
L-index

#	Paper	IF	Citations
72	Molecular architecture towards helical double-stranded polymers. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 726-30	16.4	90
71	Synthesis and Photophysical Studies of Silylene-Spaced Divinylarene Copolymers. Molecular Weight Dependent Fluorescence of Alternating Silylene-Divinylbenzene Copolymers. <i>Journal of the American Chemical Society</i> , 1997 , 119, 11321-11322	16.4	74
70	Electronic and optical properties of novel carbon allotropes. <i>Carbon</i> , 2016 , 101, 77-85	10.4	64
69	Significant evidence of C \cdots O and C \cdots C long-range contacts in several heterodimeric complexes of CO with CH ₃ -X, should one refer to them as carbon and dicarbon bonds!. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17238-52	3.6	51
68	Remarkable Enhancement of Second-Order Nonlinear Optical Properties of Polynorbornenes Having Pendant Chromophores. Use of Hyper-Rayleigh Scattering to Estimate the Tacticity of Rigid Rod Polymers. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1607-1608	16.4	43
67	Smallest Electrical Wire Based on Extended Metal-Atom Chains. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3641-3644	3.8	42
66	Energy-Level Alignment for Single-Molecule Conductance of Extended Metal-Atom Chains. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15734-8	16.4	41
65	Generalized classification scheme of toroidal and helical carbon nanotubes. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 361-8	6.1	39
64	Fluorines in tetrafluoromethane as halogen bond donors: Revisiting address the nature of the fluorine's lone pair. <i>International Journal of Quantum Chemistry</i> , 2015 , 115, 453-470	2.1	36
63	Can an entirely negative fluorine in a molecule, viz. perfluorobenzene, interact attractively with the entirely negative site(s) on another molecule(s)? Like liking like!. <i>RSC Advances</i> , 2016 , 6, 19098-19110	3.7	35
62	Halogen bonding interaction of chloromethane with several nitrogen donating molecules: addressing the nature of the chlorine lone pair. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19573-89	3.6	34
61	Clustered Geometries Exploiting Quantum Coherence Effects for Efficient Energy Transfer in Light Harvesting. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2577-2584	6.4	34
60	One-handed helical double stranded polybisenorbornenes. <i>Chemical Communications</i> , 2008 , 6158-60	5.8	33
59	An investigation of quantum transport by the free-electron network model: Resonance and interference effects. <i>Chemical Physics</i> , 2009 , 355, 177-182	2.3	30
58	Charge Transport Through a Single Molecular Wire Based on Linear Multimetal Complexes: A Non-Equilibrium Green's Function Approach. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10538-10541	3.8	30
57	Unusual bonding modes of perfluorobenzene in its polymeric (dimeric, trimeric and tetrameric) forms: entirely negative fluorine interacting cooperatively with entirely negative fluorine. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31624-45	3.6	28
56	An efficient quantum jump method for coherent energy transfer dynamics in photosynthetic systems under the influence of laser fields. <i>New Journal of Physics</i> , 2014 , 16, 053033	2.9	27

55	Furan-containing oligoaryl cyclophanene. <i>Organic Letters</i> , 2003 , 5, 4381-4	6.2	25
54	A bridging double bond as an electron acceptor for optical nonlinearity of furan-containing [N.2]cyclophanes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 897-900	16.4	24
53	The phane properties of anti-[2.2](1,4)biphenylenophane. <i>Journal of Organic Chemistry</i> , 2005 , 70, 3560-84.2		22
52	Local curvature and stability of two-dimensional systems. <i>Physical Review B</i> , 2014 , 90,	3.3	19
51	Molecular Architecture towards Helical Double-Stranded Polymers. <i>Angewandte Chemie</i> , 2006 , 118, 740-744		18
50	Nonhelical heterometallic [MoM(npo)(NCS)] string complexes (M = Fe, Co, Ni) with high single-molecule conductance. <i>Chemical Communications</i> , 2017 , 53, 8886-8889	5.8	17
49	Hexahalogenated and their mixed benzene derivatives as prototypes for the understanding of halogen-halogen intramolecular interactions: New insights from combined DFT, QTAIM-, and RDG-based NCI analyses. <i>Journal of Computational Chemistry</i> , 2015 , 36, 2328-43	3.5	17
48	A heteropentanuclear metal string complex [MoNiMo(tpda)(NCS)] with two linearly aligned quadruply bonded Mo units connected by a Ni ion and a meso configuration of the complex. <i>Chemical Communications</i> , 2016 , 52, 12380-12382	5.8	17
47	Charge-Transfer Interactions in Organic Functional Materials. <i>Materials</i> , 2010 , 3, 4214-4251	3.5	16
46	Rational design of polymers for optoelectronic interests. <i>Pure and Applied Chemistry</i> , 2001 , 73, 243-246	2.1	16
45	Reaction: New Insights into Molecular Electronics. <i>Chem</i> , 2017 , 3, 378-379	16.2	15
44	Novel penta-graphene nanotubes: strain-induced structural and semiconductor-metal transitions. <i>Nanoscale</i> , 2017 , 9, 19310-19317	7.7	15
43	Energy-Level Alignment for Single-Molecule Conductance of Extended Metal-Atom Chains. <i>Angewandte Chemie</i> , 2015 , 127, 15960-15964	3.6	14
42	Molecular Modeling of Fullerenes with Beads. <i>Journal of Chemical Education</i> , 2012 , 89, 414-416	2.4	14
41	Transport through a mixed-valence molecular transistor in the sequential-tunneling regime: Theoretical insight from the two-site Peierls-Hubbard model. <i>Journal of Chemical Physics</i> , 2010 , 133, 144705	3.9	14
40	Ligand(s)-to-metal charge transfer as a factor controlling the equilibrium constants of late first-row transition metal complexes: revealing the Irving-Williams thermodynamical series. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 805-11	3.6	13
39	Dual space approach to the classification of toroidal carbon nanotubes. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1679-86	6.1	12
38	Bandwidth, intensity, and lineshape of the transmission spectrum in the single molecular junction. <i>Chemical Physics Letters</i> , 2008 , 457, 279-283	2.5	12

37	Chirality control of quadruple helices of metal strings by peripheral chiral ligands. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 3111-5	4.5	10
36	Relative stability and local curvature analysis in carbon nanotori. <i>Physical Review B</i> , 2015 , 91,	3.3	9
35	Molecular Split-Ring Resonators Based on Metal String Complexes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 3766-3773	3.8	9
34	Three-dimensional through-space/through-bond delocalization in cyclophane systems: a molecule-in-molecule approach. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 2948-54	2.8	9
33	Solvolysis of N,N-diphenylcarbamoyl chloride revisited. Extended positive charge delocalization on phenyl rings in the transition state and possible contribution of non-canonical resonance structure. <i>Journal of Physical Organic Chemistry</i> , 2000 , 13, 322-329	2.1	9
32	On the structural rules of helically coiled carbon nanotubes. <i>Journal of Molecular Structure</i> , 2012 , 1008, 1-7	3.4	8
31	Correspondence between Gentile oscillators and N-annulenes. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12540-5	2.8	8
30	Systematics of high-genus fullerenes. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1664-8	6.1	8
29	Correlation effects of π electrons on the band structures of conjugated polymers using the self-consistent GW approximation with vertex corrections. <i>Journal of Chemical Physics</i> , 2012 , 136, 024110	3.9	7
28	Vibrational contributions to static linear and nonlinear optical coefficients: from two-level to two-band systems. <i>Theoretical Chemistry Accounts</i> , 2009 , 122, 313-324	1.9	7
27	Classification of hypothetical doubly and triply periodic porous graphitic structures by tilings of neck-like units. <i>Journal of Mathematical Chemistry</i> , 2010 , 47, 1077-1084	2.1	7
26	A Bridging Double Bond as an Electron Acceptor for Optical Nonlinearity of Furan-Containing [n.2]Cyclophanes. <i>Angewandte Chemie</i> , 2007 , 119, 915-918	3.6	5
25	The synthesis and magnetic properties of a linear mixed-valence [Ni] in an anthridine tri-nickel complex. <i>Dalton Transactions</i> , 2019 , 48, 9912-9915	4.3	4
24	Frozen-mode small polaron quantum master equation with variational bound for excitation energy transfer in molecular aggregates. <i>Journal of Chemical Physics</i> , 2019 , 150, 224110	3.9	4
23	A simple molecular orbital treatment of current distributions in quantum transport through molecular junctions. <i>Journal of Chemical Physics</i> , 2017 , 147, 194106	3.9	4
22	Self-interaction correction to GW approximation. <i>Physica Scripta</i> , 2012 , 86, 065301	2.6	4
21	Hypothetical toroidal, cylindrical, and helical analogs of C60. <i>Journal of Molecular Graphics and Modelling</i> , 2009 , 28, 220-5	2.8	4
20	Director textures of the Néel inversion wall in a liquid crystal polymer. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 76, 951-960		4

19	Extended charge delocalization to 4-phenoxy substituent in benzhydryl solvolysis: possible contribution of non-canonical resonance structure in the cationic transition state. <i>Journal of Physical Organic Chemistry</i> , 2002 , 15, 21-28	2.1	4
18	Theory of charge transport in molecular junctions: from Coulomb blockade to coherent tunneling. <i>Journal of Chemical Physics</i> , 2014 , 141, 064111	3.9	3
17	Interchain interactions in organic conjugated dimers: a composite-molecule approach. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2885-92	2.8	3
16	Synthesis and photophysical studies of siloxane-tethered cyclophanes. <i>Silicon Chemistry</i> , 2002 , 1, 403-407		3
15	Conformation of substituted poly-norbornene polymers studied by hyper-Rayleigh scattering at 1064 nm. <i>Chemical Physics Letters</i> , 1999 , 311, 355-361	2.5	3
14	Theory of charge transport in molecular junctions: Role of electron correlation. <i>Journal of Chemical Physics</i> , 2017 , 146, 134113	3.9	2
13	Alternating oligo[(2,3-O-isopropylidene-L-threitol)]-co-[(E,E)-1,4-bis(styryl)benzene]s: the linear chirality transmission additivity relationship in nematic liquid crystals. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2607-16	3.4	2
12	Albrecht theory of resonance Raman scattering: applied to conjugated polymers in the solid-state limit. <i>Chemical Physics Letters</i> , 1992 , 197, 117-122	2.5	2
11	Comments on Structural Types of Toroidal Carbon Nanotubes. <i>Journal of the Chinese Chemical Society</i> , 2013 , 60, 949-954	1.5	1
10	Analytical expressions for the vibrational static second hyperpolarizability of polyacetylene. <i>Chemical Physics</i> , 2009 , 362, 71-74	2.3	1
9	Construction of Physical Models for Arbitrary Fullerenes with Beads: Realization of Tangent-Sphere Model. <i>Journal of the Chinese Chemical Society</i> , 2010 , 57, 316-324	1.5	1
8	Effect of Broken Symmetry on the First Hyperpolarizability of a Centrosymmetric Molecule with an Application to Furan-Containing [2.2]Cyclophandiene. <i>Journal of the Chinese Chemical Society</i> , 2010 , 57, 575-582	1.5	1
7	A Fischer-Type Ruthenium Carbene Complex as a Metathesis Catalyst for the Synthesis of Enol Ethers. <i>Journal of Organic Chemistry</i> , 2021 ,	4.2	1
6	Hemihelices on molecular scale: extended metal atom chains with helical perversions in ligands. <i>New Journal of Chemistry</i> , 2019 , 43, 16089-16095	3.6	1
5	Band Structures of Quasi-One-Dimensional Incommensurate Helical Systems: A Case Study of Infinite Chromium Extended Metal Atom Chain. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9199-9208	2.8	1
4	From the BrazucaBall to octahedral fullerenes: their construction and classification. <i>Journal of Mathematical Chemistry</i> , 2017 , 55, 873-886	2.1	
3	Fullerenes, Polyhedra, and Chinese Guardian Lions. <i>Mathematical Intelligencer</i> , 2016 , 38, 61-68	0.2	
2	Where Chemistry Meets Art: An Exploration of Nano World through Mathematical Beading. <i>Proceedings (mdpi)</i> , 2018 , 2, 71	0.3	

- 1 Moisture Effect on Polythiophene Electroluminescence. *Materials Research Society Symposia Proceedings*, **1997**, 488, 599