Bih-Yaw Jin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Fischer-Type Ruthenium Carbene Complex as a Metathesis Catalyst for the Synthesis of Enol Ethers. *Journal of Organic Chemistry*, **2021**,	4.2	1
71	The synthesis and magnetic properties of a linear mixed-valence [Ni] in an anthyridine tri-nickel complex. *Dalton Transactions*, **2019**, 48, 9912-9915	4.3	4
70	Frozen-mode small polaron quantum master equation with variational bound for excitation energy transfer in molecular aggregates. *Journal of Chemical Physics*, **2019**, 150, 224110	3.9	4
69	Hemihelices on molecular scale: extended metal atom chains with helical perversions in ligands. *New Journal of Chemistry*, **2019**, 43, 16089-16095	3.6	1
68	Where Chemistry Meets Art: An Exploration of Nano World through Mathematical Beading. *Proceedings (mdpi)*, **2018**, 2, 71	0.3	
67	Band Structures of Quasi-One-Dimensional Incommensurate Helical Systems: A Case Study of Infinite Chromium Extended Metal Atom Chain. *Journal of Physical Chemistry A*, **2018**, 122, 9199-9208	2.8	1
66	From the Brazucaball to octahedral fullerenes: their construction and classification. *Journal of Mathematical Chemistry*, **2017**, 55, 873-886	2.1	
65	Theory of charge transport in molecular junctions: Role of electron correlation. *Journal of Chemical Physics*, **2017**, 146, 134113	3.9	2
64	Reaction: New Insights into Molecular Electronics. *CheM*, **2017**, 3, 378-379	16.2	15
63	Nonhelical heterometallic [MoM(npo)(NCS)] string complexes (M = Fe, Co, Ni) with high single-molecule conductance. *Chemical Communications*, **2017**, 53, 8886-8889	5.8	17
62	A simple molecular orbital treatment of current distributions in quantum transport through molecular junctions. *Journal of Chemical Physics*, **2017**, 147, 194106	3.9	4
61	Novel penta-graphene nanotubes: strain-induced structural and semiconductor-metal transitions. *Nanoscale*, **2017**, 9, 19310-19317	7.7	15
60	Fullerenes, Polyhedra, and Chinese Guardian Lions. *Mathematical Intelligencer*, **2016**, 38, 61-68	0.2	
59	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!. *RSC Advances*, **2016**, 6, 19098-19110	3.7	35
58	Electronic and optical properties of novel carbon allotropes. *Carbon*, **2016**, 101, 77-85	10.4	64
57	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. *Chemical Communications*, **2016**, 52, 12380-12382	5.8	17
56	Relative stability and local curvature analysis in carbon nanotori. *Physical Review B*, **2015**, 91,	3.3	9

55	Unusual bonding modes of perfluorobenzene in its polymeric (dimeric, trimeric and tetrameric) forms: entirely negative fluorine interacting cooperatively with entirely negative fluorine. *Physical Chemistry Chemical Physics*, **2015**, 17, 31624-45	3.6	28
54	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. *Physical Chemistry Chemical Physics*, **2015**, 17, 805-11	3.6	13
53	Energy-Level Alignment for Single-Molecule Conductance of Extended Metal-Atom Chains. *Angewandte Chemie - International Edition*, **2015**, 54, 15734-8	16.4	41
52	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. *Journal of Computational Chemistry*, **2015**, 36, 2328-43	3.5	17
51	Energy-Level Alignment for Single-Molecule Conductance of Extended Metal-Atom Chains. *Angewandte Chemie*, **2015**, 127, 15960-15964	3.6	14
50	Fluorines in tetrafluoromethane as halogen bond donors: Revisiting address the nature of the fluorine's □hole. *International Journal of Quantum Chemistry*, **2015**, 115, 453-470	2.1	36
49	Halogen bonding interaction of chloromethane with several nitrogen donating molecules: addressing the nature of the chlorine surface □hole. *Physical Chemistry Chemical Physics*, **2014**, 16, 19573-89	3.6	34
48	Molecular Split-Ring Resonators Based on Metal String Complexes. *Journal of Physical Chemistry C*, **2014**, 118, 3766-3773	3.8	9
47	Chirality control of quadruple helixes of metal strings by peripheral chiral ligands. *Chemistry - an Asian Journal*, **2014**, 9, 3111-5	4.5	10
46	An efficient quantum jump method for coherent energy transfer dynamics in photosynthetic systems under the influence of laser fields. *New Journal of Physics*, **2014**, 16, 053033	2.9	27
45	Theory of charge transport in molecular junctions: from Coulomb blockade to coherent tunneling. *Journal of Chemical Physics*, **2014**, 141, 064111	3.9	3
44	Local curvature and stability of two-dimensional systems. *Physical Review B*, **2014**, 90,	3.3	19
43	Significant evidence of C□□O and C□□C long-range contacts in several heterodimeric complexes of CO with CH3-X, should one refer to them as carbon and dicarbon bonds!. *Physical Chemistry Chemical Physics*, **2014**, 16, 17238-52	3.6	51
42	Clustered Geometries Exploiting Quantum Coherence Effects for Efficient Energy Transfer in Light Harvesting. *Journal of Physical Chemistry Letters*, **2013**, 4, 2577-2584	6.4	34
41	Correspondence between Gentile oscillators and N-annulenes. *Journal of Physical Chemistry A*, **2013**, 117, 12540-5	2.8	8
40	Comments on Structural Types of Toroidal Carbon Nanotubes. *Journal of the Chinese Chemical Society*, **2013**, 60, 949-954	1.5	1
39	On the structural rules of helically coiled carbon nanotubes. *Journal of Molecular Structure*, **2012**, 1008, 1-7	3.4	8
38	Self-interaction correction to GW approximation. *Physica Scripta*, **2012**, 86, 065301	2.6	4

37	Molecular Modeling of Fullerenes with Beads. *Journal of Chemical Education*, **2012**, 89, 414-416	2.4	14
36	Correlation effects of π electrons on the band structures of conjugated polymers using the self-consistent GW approximation with vertex corrections. *Journal of Chemical Physics*, **2012**, 136, 024110	3.9	7
35	Transport through a mixed-valence molecular transistor in the sequential-tunneling regime: Theoretical insight from the two-site Peierls-Hubbard model. *Journal of Chemical Physics*, **2010**, 133, 144705	3.9	14
34	Charge-Transfer Interactions in Organic Functional Materials. *Materials*, **2010**, 3, 4214-4251	3.5	16
33	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. *Journal of Physical Chemistry B*, **2010**, 114, 2607-16	3.4	2
32	Interchain interactions in organic conjugated dimers: a composite-molecule approach. *Journal of Physical Chemistry A*, **2010**, 114, 2885-92	2.8	3
31	Smallest Electrical Wire Based on Extended Metal-Atom Chains. *Journal of Physical Chemistry C*, **2010**, 114, 3641-3644	3.8	42
30	Construction of Physical Models for Arbitrary Fullerenes with Beads: Realization of Tangent-Sphere Model. *Journal of the Chinese Chemical Society*, **2010**, 57, 316-324	1.5	1
29	Effect of Broken Symmetry on the First Hyperpolarizability of a Centrosymmetric Molecule with an Application to Furan-Containing [2.2]Cyclophandiene. *Journal of the Chinese Chemical Society*, **2010**, 57, 575-582	1.5	1
28	Classification of hypothetical doubly and triply periodic porous graphitic structures by tilings of neck-like units. *Journal of Mathematical Chemistry*, **2010**, 47, 1077-1084	2.1	7
27	Vibrational contributions to static linear and nonlinear optical coefficients: from two-level to two-band systems. *Theoretical Chemistry Accounts*, **2009**, 122, 313-324	1.9	7
26	Hypothetical toroidal, cylindrical, and helical analogs of C60. *Journal of Molecular Graphics and Modelling*, **2009**, 28, 220-5	2.8	4
25	An investigation of quantum transport by the free-electron network model: Resonance and interference effects. *Chemical Physics*, **2009**, 355, 177-182	2.3	30
24	Analytical expressions for the vibrational static second hyperpolarizability of polyacetylene. *Chemical Physics*, **2009**, 362, 71-74	2.3	1
23	Systematics of high-genus fullerenes. *Journal of Chemical Information and Modeling*, **2009**, 49, 1664-8	6.1	8
22	Generalized classification scheme of toroidal and helical carbon nanotubes. *Journal of Chemical Information and Modeling*, **2009**, 49, 361-8	6.1	39
21	Dual space approach to the classification of toroidal carbon nanotubes. *Journal of Chemical Information and Modeling*, **2009**, 49, 1679-86	6.1	12
20	Three-dimensional through-space/through-bond delocalization in cyclophane systems: a molecule-in-molecule approach. *Journal of Physical Chemistry A*, **2008**, 112, 2948-54	2.8	9

19	One-handed helical double stranded polybisnorbornenes. *Chemical Communications*, **2008**, 6158-60	5.8	33
18	Charge Transport Through a Single Molecular Wire Based on Linear Multimetal Complexes: A Non-Equilibrium Green Function Approach. *Journal of Physical Chemistry C*, **2008**, 112, 10538-10541	3.8	30
17	Bandwidth, intensity, and lineshape of the transmission spectrum in the single molecular junction. *Chemical Physics Letters*, **2008**, 457, 279-283	2.5	12
16	A bridging double bond as an electron acceptor for optical nonlinearity of furan-containing [N.2]cyclophenes. *Angewandte Chemie - International Edition*, **2007**, 46, 897-900	16.4	24
15	A Bridging Double Bond as an Electron Acceptor for Optical Nonlinearity of Furan-Containing [n.2]Cyclophenes. *Angewandte Chemie*, **2007**, 119, 915-918	3.6	5
14	Molecular architecture towards helical double-stranded polymers. *Angewandte Chemie - International Edition*, **2006**, 45, 726-30	16.4	90
13	Molecular Architecture towards Helical Double-Stranded Polymers. *Angewandte Chemie*, **2006**, 118, 740-744	3.6	18
12	The phane properties of anti-[2.2](1,4)biphenylenophane. *Journal of Organic Chemistry*, **2005**, 70, 3560-84	4.2	22
11	Furan-containing oligoaryl cyclophanene. *Organic Letters*, **2003**, 5, 4381-4	6.2	25
10	Extended charge delocalization to 4-phenoxy substituent in benzhydryl solvolysis: possible contribution of non-canonical resonance structure in the cationic transition state. *Journal of Physical Organic Chemistry*, **2002**, 15, 21-28	2.1	4
9	Synthesis and photophysical studies of siloxane-tethered cyclophanes. *Silicon Chemistry*, **2002**, 1, 403-407		3
8	Rational design of polymers for optoelectronic interests. *Pure and Applied Chemistry*, **2001**, 73, 243-246	2.1	16
7	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. *Journal of Physical Organic Chemistry*, **2000**, 13, 322-329	2.1	9
6	Conformation of substituted poly-norbornene polymers studied by hyper-Rayleigh scattering at 1064 nm. *Chemical Physics Letters*, **1999**, 311, 355-361	2.5	3
5	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. *Journal of the American Chemical Society*, **1999**, 121, 1607-1608	16.4	43
4	Director textures of the Néel inversion wall in a liquid crystal polymer. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1997**, 76, 951-960		4
3	Moisture Effect on Polythiophene Electroluminescence. *Materials Research Society Symposia Proceedings*, **1997**, 488, 599		
2	Synthesis and Photophysical Studies of Silylene-Spaced Divinylarene Copolymers. Molecular Weight Dependent Fluorescence of Alternating Silylene Divinylbenzene Copolymers. *Journal of the American Chemical Society*, **1997**, 119, 11321-11322	16.4	74

1	Albrecht theory of resonance Raman scattering: applied to conjugated polymers in the solid-state limit. *Chemical Physics Letters*, **1992**, 197, 117-122	2.5	2