

Jonathon E Beves

List of Publications by Year in descending order

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90
papers

4,098
citations

159525

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128
docs citations

128
times ranked

3660
citing authors

#	ARTICLE	IF	CITATIONS
1	Strategies and Tactics for the Metal-Directed Synthesis of Rotaxanes, Knots, Catenanes, and Higher Order Links. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9260-9327.	7.2	614
2	A synthetic molecular pentafoil knot. <i>Nature Chemistry</i> , 2012, 4, 15-20.	6.6	379
3	Template synthesis of molecular knots. <i>Chemical Society Reviews</i> , 2013, 42, 1700-1712.	18.7	280
4	All-Optical Integrated Logic Operations Based on Chemical Communication between Molecular Switches. <i>Chemistry - A European Journal</i> , 2009, 15, 178-185.	1.7	124
5	Pentameric Circular Iron(II) Double Helicates and a Molecular Pentafoil Knot. <i>Journal of the American Chemical Society</i> , 2012, 134, 9488-9497.	6.6	123
6	Photochromic switching behaviour of donor-acceptor Stenhouse adducts in organic solvents. <i>Chemical Communications</i> , 2016, 52, 13576-13579.	2.2	103
7	The Self-Sorting Behavior of Circular Helicates and Molecular Knots and Links. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7823-7827.	7.2	90
8	A Solomon Link through an Interwoven Molecular Grid. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7555-7559.	7.2	89
9	Structure-function relationships of donor-acceptor Stenhouse adduct photochromic switches. <i>Chemical Science</i> , 2018, 9, 8242-8252.	3.7	89
10	Tetrameric Cyclic Double Helicates as a Scaffold for a Molecular Solomon Link. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6464-6467.	7.2	87
11	Strong and Selective Anion Binding within the Central Cavity of Molecular Knots and Links. <i>Journal of the American Chemical Society</i> , 2015, 137, 9812-9815.	6.6	82
12	The first example of a coordination polymer from the expanded 4,4'-bipyridine ligand [Ru(pytpy) ₂] ²⁺ (pytpy = 4'-((4-pyridyl)-2,2'-bipyridyl)-6-terpyridine). <i>CrystEngComm</i> , 2007, 9, 456-459.	1.3	78
13	Controlled formation of chiral networks and their reversible chiroptical switching behaviour by UV/microwave irradiation. <i>Chemical Communications</i> , 2016, 52, 7990-7993.	2.2	78
14	A giant metallo-supramolecular cage encapsulating a single-molecule magnet. <i>Chemical Communications</i> , 2013, 49, 3658.	2.2	75
15	Vectorial property dependence in bis{4'-((n-pyridyl)-2,2'-bipyridyl)-6-terpyridine}iron(ii) and ruthenium(ii) complexes with n = 2, 3 and 4. <i>Dalton Transactions</i> , 2008, , 386-396.	1.6	64
16	Self-assembled supramolecular cages containing ruthenium(<i>scp</i>) polypyridyl complexes. <i>Chemical Communications</i> , 2015, 51, 4465-4468.	2.2	64
17	Photochemical switching of luminescence and singlet oxygen generation by chemical signal communication. <i>Chemical Communications</i> , 2009, , 1484.	2.2	60
18	Expanding the 4,4'-bipyridine ligand: Structural variation in {M(pytpy) ₂ } ²⁺ complexes (pytpy=4'-((4-pyridyl)-2,2'-bipyridyl)-6-terpyridine, M=Fe, Ni, Ru) and assembly of the hydrogen-bonded, one-dimensional polymer. <i>Inorganica Chimica Acta</i> , 2008, 361, 2582-2590.	1.2	55

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19	Toward Metal Complexes That Can Directionally Walk Along Tracks: Controlled Stepping of a Molecular Biped with a Palladium(II) Foot. <i>Journal of the American Chemical Society</i> , 2014, 136, 2094-2100.	6.6	47
20	Photoswitching an Isolated Donor-Acceptor Stenhouse Adduct. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 665-671.	2.1	46
21	A one-dimensional copper(ii) coordination polymer containing [Fe(pytpy) ₂] ²⁺ (pytpy =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 penetrated by rod-like polymers. <i>CrystEngComm</i> , 2008, 10, 344-348.	1.3	45
22	Large, Tunable, and Reversible pH Changes by Merocyanine Photoacids. <i>Journal of the American Chemical Society</i> , 2021, 143, 20758-20768.	6.6	43
23	Visible Light-Responsive Drug Delivery Nanoparticle via Donor-Acceptor Stenhouse Adducts (DASA). <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000236.	2.0	41
24	A Photophysical Study of Sensitization-Initiated Electron Transfer: Insights into the Mechanism of Photoredox Activity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9522-9526.	7.2	37
25	Controlled Diffusion of Photoswitchable Receptors by Binding Anti-electrostatic Hydrogen-Bonded Phosphate Oligomers. <i>Journal of the American Chemical Society</i> , 2020, 142, 20014-20020.	6.6	35
26	The conjugate acid of bis{4-(4-pyridyl)-2,6-terpyridine}iron(ii) as a self-complementary hydrogen-bonded building block. <i>CrystEngComm</i> , 2007, 9, 1073.	1.3	34
27	Structural diversity in the reactions of 4-(4-pyridyl)-2,6-terpyridine ligands and bis{4-(4-pyridyl)-2,6-terpyridine}iron(II) with copper(II) salts. <i>CrystEngComm</i> , 2009, 11, 2406.	1.3	34
28	Digital colour tone for fluorescence sensing: a direct comparison of intensity, ratiometric and hue based quantification. <i>Analyst</i> , 2014, 139, 3524-3527.	1.7	34
29	Tetrameric Cyclic Double Helicates as a Scaffold for a Molecular Solomon Link. <i>Angewandte Chemie</i> , 2013, 125, 6592-6595.	1.6	33
30	Visible-Light Photoswitching by Azobenzazoles. <i>Chemistry - A European Journal</i> , 2020, 26, 1103-1110.	1.7	32
31	Visible-Light Switching of Metallosupramolecular Assemblies**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	31
32	Ultra-Low Molecular Weight Photoswitchable Hydrogelators. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6764-6770.	7.2	30
33	New discrete metallocycles incorporating palladium(ii) and platinum(ii) corners and dipyrityldibenzotetraaza[14]annulene side units. <i>Dalton Transactions</i> , 2006, , 744-750.	1.6	29
34	Self-assembled supramolecular cages containing dinuclear ruthenium(II) polypyridyl complexes. <i>Inorganica Chimica Acta</i> , 2017, 458, 122-128.	1.2	29
35	Comparing photoswitching of acrylate or methacrylate polymers conjugated with donor-acceptor Stenhouse adducts. <i>Polymer Chemistry</i> , 2019, 10, 6515-6522.	1.9	29
36	Probing the Dynamics of the Imine-Based Pentafoil Knot and Pentameric Circular Helicate Assembly. <i>Journal of the American Chemical Society</i> , 2019, 141, 3605-3612.	6.6	28

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37	Polymer Grafting to Polydopamine Free Radicals for Universal Surface Functionalization. <i>Journal of the American Chemical Society</i> , 2022, 144, 6992-7000.	6.6	28
38	A new polymorph of 4- <i>tert</i> -butyl-2,2':6''-terpyridine (ttpy) and the single crystal structures of [Fe(ttpy) ₂][PF ₆] ₂ and [Ru(ttpy) ₂][PF ₆] ₂ . <i>Inorganic Chemistry Communication</i> , 2008, 11, 1009-1011.	1.8	27
39	Comment on "Boosted molecular mobility during common chemical reactions". <i>Science</i> , 2021, 371, .	6.0	26
40	A palladium(II) complex of 4-(4-pyridyl)-2,2':6''-terpyridine: Lattice control through an interplay of stacking and hydrogen bonding effects. <i>Inorganic Chemistry Communication</i> , 2007, 10, 1185-1188.	1.8	24
41	Time-Resolved Diffusion NMR Measurements for Transient Processes. <i>ChemPhysChem</i> , 2019, 20, 926-930.	1.0	23
42	Hydrogen-Bonding Donor-Acceptor Stenhouse Adducts. <i>ChemPhotoChem</i> , 2020, 4, 407-412.	1.5	23
43	Linking rings without templates. <i>Nature Chemistry</i> , 2010, 2, 708-710.	6.6	22
44	Hue Parameter Fluorescence Identification of Edible Oils with a Smartphone. <i>ACS Sensors</i> , 2018, 3, 2061-2065.	4.0	22
45	Singlet Fission in Concentrated TIPS-Pentacene Solutions: The Role of Excimers and Aggregates. <i>Journal of the American Chemical Society</i> , 2021, 143, 13749-13758.	6.6	22
46	A pyrazolyl-terminated 2,2':6''-terpyridine ligand: Iron(II), ruthenium(II) and palladium(II) complexes of 4-(3,5-dimethylpyrazol-1-yl)-2,2':6''-terpyridine. <i>Polyhedron</i> , 2008, 27, 2395-2401.	1.0	21
47	Homoleptic metal complexes of 4-(5-pyrimidinyl)-2,2':6''-terpyridine: tetrafurcated expanded ligands. <i>CrystEngComm</i> , 2008, 10, 986.	1.3	21
48	Luminescent Tetrahedral Molecular Cages Containing Ruthenium(II) Chromophores. <i>Inorganic Chemistry</i> , 2018, 57, 8476-8486.	1.9	20
49	Enhanced Diffusion of Molecular Catalysts is Due to Convection. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18864-18867.	7.2	20
50	Anion Binding Affinity: Acidity versus Conformational Effects. <i>Journal of Organic Chemistry</i> , 2020, 85, 8074-8084.	1.7	20
51	Curly "curly, loop" loop: homoleptic metal(ii) complexes of pyridinecarbaldehyde 4-(2,2':6''-terpyridyl)hydrazones and their coordination polymers. <i>Dalton Transactions</i> , 2008, , 6742. ^{1.6}	1.6	19
52	The Inheritance Angle: A Determinant for the Number of Members in the Substituted Cucurbit[<i>n</i>]uril Family. <i>Organic Letters</i> , 2017, 19, 4034-4037.	2.4	19
53	Photosubstitution reactions in ruthenium(II) trisdiimine complexes: Implications for photoredox catalysis. <i>Polyhedron</i> , 2019, 160, 1-9.	1.0	19
54	Chiral Ruthenium(II) Complexes as Supramolecular Building Blocks for Heterometallic Self-Assembly. <i>Inorganic Chemistry</i> , 2016, 55, 12737-12751.	1.9	18

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55	Efficient microwave-assisted synthesis and characterization of key ruthenium(II) polypyridyl complexes [Ru(bpy) ₃](PF ₆) ₂ , [Ru(phen) ₃](PF ₆) ₂ , [Ru(bpy) ₂ (phen)](PF ₆) ₂ and [Ru(phen) ₂ (bpy)](PF ₆) ₂ . Journal of Coordination Chemistry, 2016, 2016, 1593-1602.	0.8	18
56	[n + n]-Heterometallomacrocyclic complexes (n ≠ 2) prepared from platinum(II)-centred ditopic 2,2':6',2''-terpyridine ligands: dimensional cataloguing by pulsed-field gradient spin-echo NMR spectroscopy. Dalton Transactions, 2007, , 1593-1602.	1.6	17
57	4'-Chloro-2,2':6',2''-terpyridine (L): ethyl sulfate salts of [H ₂ L] ²⁺ and the single crystal structures of [H ₂ L][EtOSO ₃ Cl]·H ₂ O and [ML ₂][PF ₆] ₂ with M=Fe and Ru. Inorganic Chemistry Communication, 2008, 11, 1006-1008.	1.8	17
58	Gel and Solid State Structure of Dialanine and Diphenylalanine Amphiphiles: Importance of C-H Interactions in Gelation. ChemPhysChem, 2019, 20, 972-983.	1.0	17
59	Large and selective electrochemical response to fluoride by a tetrathiafulvalene-based sensor. Tetrahedron Letters, 2013, 54, 1998-2000.	0.7	16
60	Crystal structures and antibacterial properties of Cu(II) complexes containing an unsymmetrical N ₂ O Schiff base ligand and bidentate N-donor heterocyclic co-ligands. Journal of Coordination Chemistry, 2019, 72, 2326-2336.	0.8	16
61	Multi-pyridine decorated Fe(II) and Ru(II) complexes by Pd(0)-catalysed cross couplings: new building blocks for metallosupramolecular assemblies. Dalton Transactions, 2013, 42, 15625.	1.6	15
62	Basic-to-acidic reversible pH switching with a merocyanine photoacid. Chemical Communications, 2022, 58, 5610-5613.	2.2	15
63	4'-Hydrazone Derivatives of 2,2':6',2''-terpyridine: Protonation and Substituent Effects. European Journal of Organic Chemistry, 2008, 2008, 3569-3581.	1.2	13
64	Photophysical Activity and Host-Guest Behavior of Ruthenium Polypyridyl Catalysts Encapsulated in Cucurbit[10]uril. Inorganic Chemistry, 2020, 59, 9135-9142.	1.9	13
65	Following Molecular Mobility during Chemical Reactions: No Evidence for Active Propulsion. Journal of the American Chemical Society, 2021, 143, 20884-20890.	6.6	13
66	Rapid Online Analysis of Photopolymerization Kinetics and Molecular Weight Using Diffusion NMR. ACS Macro Letters, 2022, 11, 166-172.	2.3	13
67	A Bridge Too Far: Testing the Limits of Polypyridyl Ligands in Bridging Soluble Subunits of a Coordination Polymer. Crystal Growth and Design, 2017, 17, 6603-6612.	1.4	11
68	Enhanced Diffusion of Molecular Catalysts is Due to Convection. Angewandte Chemie, 2019, 131, 19040-19043.	1.6	11
69	Diastereoselective Control of Tetraphenylethene Reactivity by Metal Template Self-Assembly. Chemistry - A European Journal, 2019, 25, 5708-5718.	1.7	11
70	Visible Light Stimulated Bistable Photo-Switching in Defect Engineered Metal-Organic Frameworks. Inorganic Chemistry, 2021, 60, 11706-11710.	1.9	9
71	On the mechanism of protein supercharging in electrospray ionisation mass spectrometry: Effects on charging of additives with short- and long-chain alkyl constituents with carbonate and sulphite terminal groups. Analytica Chimica Acta: X, 2019, 1, 100004.	2.8	8
72	Ultra-Low Molecular Weight Photoswitchable Hydrogels. Angewandte Chemie, 2021, 133, 6838-6844.	1.6	8

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73	Comment on "Using NMR to Test Molecular Mobility during a Chemical Reaction" Journal of Physical Chemistry Letters, 2021, 12, 5932-5937.	2.1	8
74	Ditopic, flexible hydrazone-based building blocks with pendant 2,2':6''-terpyridine metal-binding domains. Inorganic Chemistry Communication, 2009, 12, 898-901.	1.8	7
75	New ruthenium(II) complexes of 2,2':6''-terpyridine derivatives as supramolecular building blocks. Polyhedron, 2016, 103, 241-247.	1.0	6
76	Quantifying alkyl chain disorder in crystalline models of lipid bilayers using Raman spectroscopy. Journal of Raman Spectroscopy, 2019, 50, 63-73.	1.2	6
77	4-Chloro-2,2':6''-terpyridine. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2497-o2498.	0.2	5
78	Metal Template Synthesis of Molecular Knots and Links. Chimia, 2012, 66, 170-173.	0.3	5
79	Tiara[uril]: A Glycoluril-Based Macrocyclic Host with Cationic Walls. Journal of Organic Chemistry, 2019, 84, 3826-3831.	1.7	4
80	Substituent effects in homoleptic iron(II) and ruthenium(II) complexes of 4-hydrazone derivatives of 2,2':6''-terpyridine. Polyhedron, 2009, 28, 3828-3838.	1.0	3
81	Rage Against Conformity: Ruthenium(II) Bisterpyridine Complexes Respond to Crystal Engineering Instructions with Whelming Results. Australian Journal of Chemistry, 2017, 70, 529.	0.5	3
82	Confining Photoacidity. Chem, 2019, 5, 1366-1368.	5.8	3
83	A Photophysical Study of Sensitization-Initiated Electron Transfer: Insights into the Mechanism of Photoredox Activity. Angewandte Chemie, 2020, 132, 9609-9613.	1.6	3
84	Electrochemical Switching of First-Generation Donor-Acceptor Stenhouse Adducts (DASAs): An Alternative Stimulus for Triene Cyclisation. Chemistry, 2021, 3, 728-733.	0.9	3
85	Building Functionality into 4-Hydrazone Derivatives of 2,2':6''-terpyridine. Helvetica Chimica Acta, 2009, 92, 2214-2226.	1.0	2
86	Badly behaving bipyridine: the surprising coordination behaviour of 5,5'-substituted-2,2'-bipyridine towards iron(II) and ruthenium(II) ions. Supramolecular Chemistry, 2015, 27, 854-864.	1.5	2
87	Celebrating Professor Len Lindoy's 80th Birthday. Australian Journal of Chemistry, 2017, 70, 447.	0.5	1
88	An All-Photonic Molecular Amplifier and Binary Flip-flop. Journal of Physical Chemistry Letters, 2021, 12, 1236-1243.	2.1	1
89	Innenrücktitelbild: A Solomon Link through an Interwoven Molecular Grid (Angew. Chem. 26/2015). Angewandte Chemie, 2015, 127, 7829-7829.	1.6	0
90	23rd IUPAC Conference on Physical Organic Chemistry (ICPOC-23). Pure and Applied Chemistry, 2017, 89, 677-677.	0.9	0