

# William K Myers

## List of Publications by Year in descending order

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59  
papers

2,873  
citations

218677

26  
h-index

175258

52  
g-index

61  
all docs

61  
docs citations

61  
times ranked

3889  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. Nature Photonics, 2020, 14, 636-642.	31.4	331
2	Magnetic edge states and coherent manipulation of graphene nanoribbons. Nature, 2018, 557, 691-695.	27.8	232
3	The role of charge recombination to triplet excitons in organic solar cells. Nature, 2021, 597, 666-671.	27.8	225
4	A protein fold switch joins the circadian oscillator to clock output in cyanobacteria. Science, 2015, 349, 324-328.	12.6	157
5	Selective Catalytic Reduction of $N_2$ to $N_2H_4$ by a Simple Fe Complex. Journal of the American Chemical Society, 2016, 138, 13521-13524.	13.7	154
6	Quantum units from the topological engineering of molecular graphenoids. Science, 2019, 366, 1107-1110.	12.6	116
7	Hydrodeoxygenation of water-insoluble bio-oil to alkanes using a highly dispersed Pd-Mo catalyst. Nature Communications, 2017, 8, 591.	12.8	110
8	The HydG Enzyme Generates an $Fe(CO)_2(CN)$ Synthron in Assembly of the FeFe Hydrogenase H-Cluster. Science, 2014, 343, 424-427.	12.6	109
9	A Radical Intermediate in Tyrosine Scission to the CO and CN Ligands of FeFe Hydrogenase. Science, 2013, 342, 472-475.	12.6	107
10	EPR-ENDOR Characterization of $^{17}O$ , $^1H$ , $^{2}H$ Water in Manganese Catalase and Its Relevance to the Oxygen-Evolving Complex of Photosystem II. Journal of the American Chemical Society, 2012, 134, 1504-1512.	13.7	80
11	Synthesis and Characterization of $[Ru@Ge_{12}]^{3+}$ : An Endohedral 3-Connected Cluster. Journal of the American Chemical Society, 2014, 136, 1210-1213.	13.7	78
12	Ribonucleotide Reductase Requires Subunit Switching in Hypoxia to Maintain DNA Replication. Molecular Cell, 2017, 66, 206-220.e9.	9.7	71
13	Vibrationally Assisted Intersystem Crossing in Benchmark Thermally Activated Delayed Fluorescence Molecules. Journal of Physical Chemistry Letters, 2018, 9, 4053-4058.	4.6	69
14	Discovery of Dark pH-Dependent $H^+$ Migration in a [NiFe]-Hydrogenase and Its Mechanistic Relevance: Mobilizing the Hydrido Ligand of the Ni-C Intermediate. Journal of the American Chemical Society, 2015, 137, 8484-8489.	13.7	65
15	Electric Field Control of Spins in Molecular Magnets. Physical Review Letters, 2019, 122, 037202.	7.8	64
16	Model Complexes of Cobalt-Substituted Matrix Metalloproteinases: Tools for Inhibitor Design. Inorganic Chemistry, 2006, 45, 7306-7315.	4.0	52
17	Spectroscopic and Crystal Field Consequences of Fluoride Binding by $[Yb(DTMA)_3]^+$ in Aqueous Solution. Angewandte Chemie - International Edition, 2015, 54, 10783-10786.	13.8	52
18	The Green Box: An Electronically Versatile Perylene Diimide Macrocyclic Host for Fullerenes. Journal of the American Chemical Society, 2020, 142, 349-364.	13.7	48

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19	Integrated Paramagnetic Resonance of High-Spin Co(II) in Axial Symmetry: Chemical Separation of Dipolar and Contact Electron Nuclear Couplings. <i>Inorganic Chemistry</i> , 2008, 47, 6701-6710.	4.0	40
20	Base induced isomerisation of a phosphoethynolato-borane: mechanistic insights into boryl migration and decarbonylation to afford a triplet phosphinidene. <i>Chemical Science</i> , 2020, 11, 862-869.	7.4	39
21	The Conformation of P450cam in Complex with Putidaredoxin Is Dependent on Oxidation State. <i>Journal of the American Chemical Society</i> , 2013, 135, 11732-11735.	13.7	38
22	Electron spin resonance resolves intermediate triplet states in delayed fluorescence. <i>Nature Communications</i> , 2021, 12, 4532.	12.8	38
23	The Cyanide Ligands of [FeFe] Hydrogenase: Pulse EPR Studies of <sup>13</sup> C and <sup>15</sup> N-Labeled H-Cluster. <i>Journal of the American Chemical Society</i> , 2014, 136, 12237-12240.	13.7	37
24	9-Mercaptodethiobiotin Is Generated as a Ligand to the [2Fe-2S] Cluster during the Reaction Catalyzed by Biotin Synthase from <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2012, 134, 9042-9045.	13.7	36
25	Nuclear Resonance Vibrational Spectroscopy and Electron Paramagnetic Resonance Spectroscopy of <sup>57</sup> Fe-Enriched [FeFe] Hydrogenase Indicate Stepwise Assembly of the H-Cluster. <i>Biochemistry</i> , 2013, 52, 818-826.	2.5	33
26	Synthesis and decarbonylation chemistry of gallium phosphaketenes. <i>Dalton Transactions</i> , 2020, 49, 15249-15255.	3.3	32
27	Biochemical and Spectroscopic Studies of Epoxyqueuosine Reductase: A Novel Iron-Sulfur Cluster- and Cobalamin-Containing Protein Involved in the Biosynthesis of Queuosine. <i>Biochemistry</i> , 2015, 54, 4927-4935.	2.5	27
28	N-heterocyclic carbene induced reductive coupling of phosphorus tribromide. Isolation of a bromine bridged P-P bond and its subsequent reactivity. <i>Chemical Science</i> , 2016, 7, 6981-6987.	7.4	27
29	Singlet and triplet to doublet energy transfer: improving organic light-emitting diodes with radicals. <i>Nature Communications</i> , 2022, 13, 2744.	12.8	27
30	Anisotropic Fermi Couplings Due to Large Unquenched Orbital Angular Momentum: Q-Band <sup>1</sup> H, <sup>14</sup> N, and <sup>11</sup> B ENDOR of Bis(trispyrazolylborate) Cobalt(II). <i>Journal of the American Chemical Society</i> , 2009, 131, 10421-10429.	13.7	26
31	Engineered Mononuclear Variants in <i>Bacillus cereus</i> Metallo- $\beta$ -lactamase BclI Are Inactive. <i>Biochemistry</i> , 2008, 47, 8590-8599.	2.5	25
32	Tailored homo- and hetero-lanthanide porphyrin dimers: a synthetic strategy for integrating multiple spintronic functionalities into a single molecule. <i>Chemical Science</i> , 2018, 9, 8474-8481.	7.4	23
33	Selenium Substitution Enhances Reverse Intersystem Crossing in a Delayed Fluorescence Emitter. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6364-6370.	3.1	22
34	Geminate and Nongeminate Pathways for Triplet Exciton Formation in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	22
35	Putidaredoxin Binds to the Same Site on Cytochrome P450cam in the Open and Closed Conformation. <i>Biochemistry</i> , 2017, 56, 4371-4378.	2.5	21
36	Spin Resonance Clock Transition of the Endohedral Fullerene $N@C_{60}$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> $N @ C_{60}$	7.8	20

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37	Paramagnetic Intermediates Generated by Radical S-Adenosylmethionine (SAM) Enzymes. <i>Accounts of Chemical Research</i> , 2014, 47, 2235-2243.	15.6	19
38	Spectroscopic and Crystal Field Consequences of Fluoride Binding by [Yb <sup>3+</sup> ...DTMA] in Aqueous Solution. <i>Angewandte Chemie</i> , 2015, 127, 10933-10936.	2.0	16
39	How Formaldehyde Inhibits Hydrogen Evolution by [FeFe]-Hydrogenases: Determination by <sup>13</sup> C ENDOR of Direct Fe <sup>13</sup> C Coordination and Order of Electron and Proton Transfers. <i>Journal of the American Chemical Society</i> , 2015, 137, 5381-5389.	13.7	14
40	Feedback control optimisation of ESR experiments. <i>Journal of Magnetic Resonance</i> , 2018, 297, 9-16.	2.1	14
41	Electrically Induced Mixed Valence Increases the Conductivity of Copper Helical Metallopolymers. <i>Advanced Materials</i> , 2021, 33, e2100403.	21.0	14
42	Competition between triplet pair formation and excimer-like recombination controls singlet fission yield. <i>Cell Reports Physical Science</i> , 2021, 2, 100339.	5.6	13
43	EPR of Photoexcited Triplet-State Acceptor Porphyrins. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11782-11790.	3.1	13
44	Functional basis of electron transport within photosynthetic complex I. <i>Nature Communications</i> , 2021, 12, 5387.	12.8	13
45	Double Electron <sup>+</sup> Electron Resonance Probes Ca <sup>2+</sup> -Induced Conformational Changes and Dimerization of Recoverin. <i>Biochemistry</i> , 2013, 52, 5800-5808.	2.5	12
46	Natural Conformational Sampling of Human TNF <sup>±</sup> Visualized by Double Electron-Electron Resonance. <i>Biophysical Journal</i> , 2017, 113, 371-380.	0.5	11
47	Reversible coordination of N <sub>2</sub> and H <sub>2</sub> to a homoleptic S = 1/2 Fe( <sup>+</sup> ) diphosphine complex in solution and the solid state. <i>Chemical Science</i> , 2018, 9, 7362-7369.	7.4	10
48	Dioxygen controls the nitrosylation reactions of a protein-bound [4Fe4S] cluster. <i>Dalton Transactions</i> , 2019, 48, 13960-13970.	3.3	10
49	The Role of Arginine-127 at the Proximal NO-Binding Site in Determining the Electronic Structure and Function of 5-Coordinate NO-Heme in Cytochrome c <sup>2+</sup> of <i>Rhodobacter sphaeroides</i> . <i>Biochemistry</i> , 2009, 48, 8985-8993.	2.5	8
50	A crystalline radical cation derived from Thiele <sup>™</sup> s hydrocarbon with redox range beyond 1 <sup>+</sup> V. <i>Nature Communications</i> , 2021, 12, 7052.	12.8	8
51	Synthesis, Structure, and Bonding for Bis(permethylpentalene)diiron. <i>Inorganic Chemistry</i> , 2015, 54, 11935-11940.	4.0	7
52	Dynamical nuclear decoupling of electron spins in molecular graphenoid radicals and biradicals. <i>Physical Review B</i> , 2020, 101, .	3.2	7
53	Chirped ordered pulses for ultra-broadband ESR spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 094201.	3.0	7
54	Pulse Dipolar ESR of Doubly Labeled Mini TAR DNA and Its Annealing to Mini TAR RNA. <i>Biophysical Journal</i> , 2015, 108, 893-902.	0.5	6

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55	Synthetic tuning of the quantum properties of open-shell radicaloids. <i>CheM</i> , 2021, 7, 1363-1378.	11.7	6
56	The Original Coll Heteroscorpionates Revisited: On the EPR of Pseudotetrahedral Coll. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2641-2647.	2.0	5
57	The Internal Dynamics of Mini c TAR DNA Probed by Electron Paramagnetic Resonance of Nitroxide Spin-Labels at the Lower Stem, the Loop, and the Bulge. <i>Biochemistry</i> , 2012, 51, 8530-8541.	2.5	4
58	Conformationally Unambiguous Spin Label for Exploring the Binding Site Topology of Multivalent Systems. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6131-6135.	4.6	2
59	Room-temperature coherence boosting of molecular graphenoids by environmental spectral decomposition. <i>Physical Review B</i> , 2022, 105, .	3.2	0