

# 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	Geminate and Nongeminate Pathways for Triplet Exciton Formation in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	22
2	Room-temperature coherence boosting of molecular graphenoids by environmental spectral decomposition. <i>Physical Review B</i> , 2022, 105, .	3.2	0
3	Singlet and triplet to doublet energy transfer: improving organic light-emitting diodes with radicals. <i>Nature Communications</i> , 2022, 13, 2744.	12.8	27
4	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
5	Chirped ordered pulses for ultra-broadband ESR spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 094201.	3.0	7
6	EPR of Photoexcited Triplet-State Acceptor Porphyrins. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11782-11790.	3.1	13
7	Synthetic tuning of the quantum properties of open-shell radicaloids. <i>CheM</i> , 2021, 7, 1363-1378.	11.7	6
8	Electrically Induced Mixed Valence Increases the Conductivity of Copper Helical Metallopolymers. <i>Advanced Materials</i> , 2021, 33, e2100403.	21.0	14
9	Electron spin resonance resolves intermediate triplet states in delayed fluorescence. <i>Nature Communications</i> , 2021, 12, 4532.	12.8	38
10	The role of charge recombination to triplet excitons in organic solar cells. <i>Nature</i> , 2021, 597, 666-671.	27.8	225
11	Functional basis of electron transport within photosynthetic complex I. <i>Nature Communications</i> , 2021, 12, 5387.	12.8	13
12	A crystalline radical cation derived from Thiele's hydrocarbon with redox range beyond 1 eV. <i>Nature Communications</i> , 2021, 12, 7052.	12.8	8
13	The Green Box: An Electronically Versatile Perylene Diimide Macrocyclic Host for Fullerenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 349-364.	13.7	48
14	Synthesis and decarbonylation chemistry of gallium phosphaketenes. <i>Dalton Transactions</i> , 2020, 49, 15249-15255.	3.3	32
15	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. <i>Nature Photonics</i> , 2020, 14, 636-642.	31.4	331
16	Dynamical nuclear decoupling of electron spins in molecular graphenoid radicals and biradicals. <i>Physical Review B</i> , 2020, 101, .	3.2	7
17	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
18	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

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19	Dioxygen controls the nitrosylation reactions of a protein-bound [4Fe4S] cluster. Dalton Transactions, 2019, 48, 13960-13970.	3.3	10
20	Electric Field Control of Spins in Molecular Magnets. Physical Review Letters, 2019, 122, 037202.	7.8	64
21	Quantum units from the topological engineering of molecular graphenoids. Science, 2019, 366, 1107-1110.	12.6	116
22	Tailored homo- and hetero- lanthanide porphyrin dimers: a synthetic strategy for integrating multiple spintronic functionalities into a single molecule. Chemical Science, 2018, 9, 8474-8481.	7.4	23
23	Feedback control optimisation of ESR experiments. Journal of Magnetic Resonance, 2018, 297, 9-16.	2.1	14
24	Conformationally Unambiguous Spin Label for Exploring the Binding Site Topology of Multivalent Systems. Journal of Physical Chemistry Letters, 2018, 9, 6131-6135.	4.6	2
25	Magnetic edge states and coherent manipulation of graphene nanoribbons. Nature, 2018, 557, 691-695.	27.8	232
26	Vibrationally Assisted Intersystem Crossing in Benchmark Thermally Activated Delayed Fluorescence Molecules. Journal of Physical Chemistry Letters, 2018, 9, 4053-4058.	4.6	69
27	Reversible coordination of $N_2$ and $H_2$ to a homoleptic $S = 1/2$ Fe(diphosphine) complex in solution and the solid state. Chemical Science, 2018, 9, 7362-7369.	7.4	10
28	Ribonucleotide Reductase Requires Subunit Switching in Hypoxia to Maintain DNA Replication. Molecular Cell, 2017, 66, 206-220.e9.	9.7	71
29	Spin Resonance Clock Transition of the Endohedral Fullerene $C_{60}N_5$	7.8	20
30	Hydrodeoxygenation of water-insoluble bio-oil to alkanes using a highly dispersed Pd-Mo catalyst. Nature Communications, 2017, 8, 591.	12.8	110
31	Putidaredoxin Binds to the Same Site on Cytochrome P450cam in the Open and Closed Conformation. Biochemistry, 2017, 56, 4371-4378.	2.5	21
32	Natural Conformational Sampling of Human TNF $\alpha$ Visualized by Double Electron-Electron Resonance. Biophysical Journal, 2017, 113, 371-380.	0.5	11
33	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
34	N-heterocyclic carbene induced reductive coupling of phosphorus tribromide. Isolation of a bromine bridged P-P bond and its subsequent reactivity. Chemical Science, 2016, 7, 6981-6987.	7.4	27
35	The Original Coll Heteroscorpionates Revisited: On the EPR of Pseudotetrahedral Coll. European Journal of Inorganic Chemistry, 2016, 2016, 2641-2647.	2.0	5
36	Spectroscopic and Crystal Field Consequences of Fluoride Binding by $[Yb(DTMA)_3]^{3+}$ in Aqueous Solution. Angewandte Chemie - International Edition, 2015, 54, 10783-10786.	13.8	52

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37	Spectroscopic and Crystal Field Consequences of Fluoride Binding by [Yb(DTMA)] <sup>3+</sup> in Aqueous Solution. <i>Angewandte Chemie</i> , 2015, 127, 10933-10936.	2.0	16
38	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
39	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
40	Discovery of Dark pH-Dependent H <sup>+</sup> Migration in a [NiFe]-Hydrogenase and Its Mechanistic Relevance: Mobilizing the Hydrido Ligand of the Ni-C Intermediate. <i>Journal of the American Chemical Society</i> , 2015, 137, 8484-8489.	13.7	65
41	A protein fold switch joins the circadian oscillator to clock output in cyanobacteria. <i>Science</i> , 2015, 349, 324-328.	12.6	157
42	How Formaldehyde Inhibits Hydrogen Evolution by [FeFe]-Hydrogenases: Determination by <sup>13</sup> C ENDOR of Direct Fe-C Coordination and Order of Electron and Proton Transfers. <i>Journal of the American Chemical Society</i> , 2015, 137, 5381-5389.	13.7	14
43	Synthesis, Structure, and Bonding for Bis(permethylpentalene)diiron. <i>Inorganic Chemistry</i> , 2015, 54, 11935-11940.	4.0	7
44	The HydG Enzyme Generates an Fe(CO) <sub>2</sub> (CN) Synthron in Assembly of the FeFe Hydrogenase H-Cluster. <i>Science</i> , 2014, 343, 424-427.	12.6	109
45	Synthesis and Characterization of [Ru@Ge <sub>12</sub> ] <sup>3+</sup> : An Endohedral 3-Connected Cluster. <i>Journal of the American Chemical Society</i> , 2014, 136, 1210-1213.	13.7	78
46	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
47	Paramagnetic Intermediates Generated by Radical S-Adenosylmethionine (SAM) Enzymes. <i>Accounts of Chemical Research</i> , 2014, 47, 2235-2243.	15.6	19
48	Double Electron-Electron Resonance Probes Ca <sup>2+</sup> -Induced Conformational Changes and Dimerization of Recoverin. <i>Biochemistry</i> , 2013, 52, 5800-5808.	2.5	12
49	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
50	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
51	A Radical Intermediate in Tyrosine Scission to the CO and CN <sup>•</sup> Ligands of FeFe Hydrogenase. <i>Science</i> , 2013, 342, 472-475.	12.6	107
52	9-Mercaptodethiobiotin Is Generated as a Ligand to the [2Fe-S] <sup>+</sup> 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
53	EPR-ENDOR Characterization of ( <sup>17</sup> O, <sup>1</sup> H, <sup>2</sup> H) Water in Manganese Catalase and Its Relevance to the Oxygen-Evolving Complex of Photosystem II. <i>Journal of the American Chemical Society</i> , 2012, 134, 1504-1512.	13.7	80
54	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

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55	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 <i>c</i> of <i>Rhodobacter sphaeroides</i> .	2.5	8
56	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).	13.7	26
57	Integrated Paramagnetic Resonance of High-Spin Co(II) in Axial Symmetry: Chemical Separation of Dipolar and Contact Electron-Nuclear Couplings.	4.0	40
58	Engineered Mononuclear Variants in <i>Bacillus cereus</i> Metallo- $\beta$ -lactamase BclI Are Inactive.	2.5	25
59	Model Complexes of Cobalt-Substituted Matrix Metalloproteinases: Tools for Inhibitor Design.	4.0	52