John R Miller

List of Publications by Year in descending order

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49 papers	2,325 citations	331259 21 h-index	223531 46 g-index
51 all docs	51 docs citations	51 times ranked	2295 citing authors

#	Article	IF	Citations
1	Dynamic broadening alters triplet extinction coefficients in fluorene oligomers and polymers. Journal of Chemical Physics, 2020, 152, 024901.	1.2	0
2	Inverted Region in Bimolecular Electron Transfer in Solution Enabled by Delocalization. Journal of the American Chemical Society, 2020, 142, 17997-18004.	6.6	5
3	Pushing the limits of the electrochemical window with pulse radiolysis in chloroform. Physical Chemistry Chemical Physics, 2020, 22, 14660-14670.	1.3	7
4	General Method for Determining Redox Potentials without Electrolyte. Journal of Physical Chemistry A, 2020, 124, 5487-5495.	1.1	4
5	The Impact of Huge Structural Changes on Electron Transfer and Measurement of Redox Potentials: Reduction of ortho-12-Carborane. Journal of Physical Chemistry B, 2019, 123, 9668-9676.	1.2	5
6	Rate versus Free Energy Change for Attaching Highly Mobile Electrons to Molecules in Nonpolar Liquids. Journal of Physical Chemistry B, 2019, 123, 9206-9211.	1.2	12
7	Structure and photophysics of indigoids for singlet fission: Cibalackrot. Journal of Chemical Physics, 2019, 151, 184903.	1.2	40
8	Electron Transport with Mobility, Î¼ > 86 cm²/(V s), in a 74 nm Long Polyfluorene. Journal of Physical Chemistry Letters, 2019, 10, 171-175.	2.1	5
9	p-Carborane Conjugation in Radical Anions of Cageâ€“Cage and Cageâ€“Phenyl Compounds. Journal of Physical Chemistry A, 2018, 122, 798-810.	1.1	9
10	Chain Length Dependence of Energies of Electron and Triplet Polarons in Oligofluorenes. Journal of Physical Chemistry C, 2017, 121, 5959-5967.	1.5	9
11	Effects of electrolytes on redox potentials through ion pairing. Journal of Electroanalytical Chemistry, 2017, 804, 107-115.	1.9	20
12	Escape of anions from geminate recombination in THF due to charge delocalization. Physical Chemistry Chemical Physics, 2017, 19, 32272-32285.	1.3	1
13	Fast Holes, Slow Electrons, and Medium Control of Polaron Size and Mobility in the DA Polymer F8BT. Journal of Physical Chemistry C, 2017, 121, 15597-15609.	1.5	16
14	Multiply Reduced Oligofluorenes: Their Nature and Pairing with THF-Solvated Sodium Ions. Journal of Physical Chemistry C, 2016, 120, 16489-16499.	1.5	4
15	Electronic Spectra of the Tetraphenylcyclobutadienecyclopentadienylnickel(II) Cation and Radical. Journal of Physical Chemistry A, 2016, 120, 3456-3462.	1.1	2
16	Identification of Ion-Pair Structures in Solution by Vibrational Stark Effects. Journal of Physical Chemistry B, 2016, 120, 1149-1157.	1.2	22
17	Vibrational Stark Effects To Identify Ion Pairing and Determine Reduction Potentials in Electrolyte-Free Environments. Journal of the American Chemical Society, 2015, 137, 1136-1140.	6.6	25
18	Charge Transfer Fluorescence and 34 nm Exciton Diffusion Length in Polymers with Electron Acceptor End Traps. Journal of Physical Chemistry B, 2015, 119, 7231-7241.	1.2	14

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19	Transport of Triplet Excitons along Continuous 100 nm Polyfluorene Chains. Journal of Physical Chemistry B, 2015, 119, 7210-7218.	1.2	12
20	A design strategy for intramolecular singlet fission mediated by charge-transfer states inÂdonorâ€“acceptor organic materials. Nature Materials, 2015, 14, 426-433.	13.3	298
21	Electron Localization of Anions Probed by Nitrile Vibrations. Journal of the American Chemical Society, 2015, 137, 10979-10991.	6.6	29
22	Polarons, Compressed Polarons, and Bipolarons in Conjugated Polymers. Journal of Physical Chemistry C, 2014, 118, 114-125.	1.5	19
23	Pressure Tuning of Electron Attachment to Benzoquinones in Nonpolar Fluids: Continuous Adjustment of Free Energy Changes. Journal of Physical Chemistry B, 2014, 118, 2164-2171.	1.2	10
24	Lower tunnel barriers. Nature Chemistry, 2014, 6, 854-855.	6.6	3
25	Mobility of Holes in Oligo- and Polyfluorenes of Defined Lengths. Journal of Physical Chemistry C, 2014, 118, 6100-6109.	1.5	29
26	Giant infrared absorption bands of electrons and holes in conjugated molecules. Nature Communications, 2013, 4, .	5.8	36
27	Rapid â€œStep Captureâ€•of Holes in Chloroform during Pulse Radiolysis. Journal of Physical Chemistry A, 2013, 117, 7712-7720.	1.1	6
28	Poly(3-decylthiophene) Radical Anions and Cations in Solution: Single and Multiple Polarons and Their Delocalization Lengths in Conjugated Polymers. Journal of Physical Chemistry B, 2012, 116, 14715-14723.	1.2	30
29	Polarons, Bipolarons, and Side-By-Side Polarons in Reduction of Oligofluorenes. Journal of the American Chemical Society, 2012, 134, 10852-10863.	6.6	70
30	Synthesis of amphiphilic block copolymers composed of hydrophobic poly(3-decylthiophene) and hydrophilic poly(ethylene oxide) segments. Transactions of the Materials Research Society of Japan, 2012, 37, 413-416.	0.2	0
31	Triplet Transport to and Trapping by Acceptor End Groups on Conjugated Polyfluorene Chains. Journal of Physical Chemistry C, 2011, 115, 19569-19577.	1.5	16
32	Sudden, â€œStepâ€•Electron Capture by Conjugated Polymers. Journal of Physical Chemistry A, 2011, 115, 11615-11623.	1.1	6
33	Negative Polaron and Triplet Exciton Diffusion in Organometallic â€œMolecular Wiresâ€• Journal of the American Chemical Society, 2011, 133, 11289-11298.	6.6	70
34	Length and Time-Dependent Rates in Diffusion-Controlled Reactions with Conjugated Polymers. Journal of Physical Chemistry A, 2009, 113, 2786-2795.	1.1	29
35	Electron and Hole Transport To Trap Groups at the Ends of Conjugated Polyfluorenes. Journal of the American Chemical Society, 2008, 130, 11912-11920.	6.6	77
36	Nature and Energies of Electrons and Holes in a Conjugated Polymer, Polyfluorene. Journal of the American Chemical Society, 2006, 128, 16073-16082.	6.6	64

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37	The LEAF picosecond pulse radiolysis facility at Brookhaven National Laboratory. Review of Scientific Instruments, 2004, 75, 4359-4366.	0.6	133
38	Charge Transfer through Terthiophene End-Capped Poly(arylene ethynylene)s. Journal of Physical Chemistry B, 2004, 108, 1544-1555.	1.2	44
39	Benzene Radical Ion in Equilibrium with Solvated Electrons. Journal of Physical Chemistry A, 2003, 107, 2033-2038.	1.1	25
40	Calculation of temporary anion states using density functional theory. Chemical Physics, 1999, 246, 147-155.	0.9	29
41	Investigation of Through-Bond Coupling Dependence on Spacer Structure. Journal of the American Chemical Society, 1996, 118, 378-387.	6.6	90
42	Puzzles of Electron Transfer. Advances in Chemistry Series, 1991, , 265-276.	0.6	3
43	Thermal and Photoinduced Long Distance Electron Transfer in Proteins and in Model Systems. ACS Symposium Series, 1986, , 150-165.	0.5	6
44	Effect of free energy on rates of electron transfer between molecules. Journal of the American Chemical Society, 1984, 106, 5057-5068.	6.6	438
45	Fast intramolecular electron transfer in radical ions over long distances across rigid saturated hydrocarbon spacers. Journal of the American Chemical Society, 1983, 105, 670-672.	6.6	189
46	Rapid long range intramolecular electron transfer within a steroid molecule with two electron	1.2	18
47	Long range transfer of positive charge between dopant molecules in a rigid glassy matrix. Journal of Chemical Physics, 1981, 74, 6746-6756.	1.2	173
48	Exothermic rate restrictions on electron transfer in a rigid medium. Journal of Chemical Physics, 1979, 71, 4579-4595.	1.2	172
49	Effects of Electrolyte on Redox Potentials. , 0, , .		1