David R Worrall

List of Publications by Year
in descending order

47 papers	1,253 citations	430874 18 h-index	377865 34 g-index
48 all docs	48 docs citations	48 times ranked	1292 citing authors

#	Article	IF	Citations
1	Alkylation of Porous Silicon by Direct Reaction with Alkenes and Alkynes. Angewandte Chemie - International Edition, 1998, 37, 2683-2685.	13.8	170
2	Spectroscopy and Photophysics of Lumiflavins and Lumichromes. Journal of Physical Chemistry A, 2004, 108, 1501-1508.	2.5	126
3	Photosensitized generation of singlet oxygen from ruthenium(ii) and osmium(ii) bipyridyl complexes. Dalton Transactions, 2004, , 30.	3.3	77
4	Spectroscopy and photophysics of flavin related compounds: Riboflavin and iso-(6,7)-riboflavin. Chemical Physics, 2005, 314, 239-247.	1.9	72
5	Mechanism of the excited singlet and triplet states quenching by molecular oxygen in acetonitrile. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 172, 170-179.	3.9	57
6	Fluorescence yields and molecular orientation of thin organic films: Vapor-Deposited Oligothiophenes ?3T??8T. Journal of Fluorescence, 1995, 5, 165-170.	2.5	54
7	Spectroscopy and Photophysics of Iso- and Alloxazines: Experimental and Theoretical Study. Journal of Fluorescence, 2004, 14, 57-64.	2.5	49
8	Singlet oxygen formation efficiencies following quenching of excited singlet and triplet states of aromatic hydrocarbons by molecular oxygen. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 142, 133-143.	3.9	48
9	Electron Transfer Reactions of Anthracene Adsorbed on Silica Gel. Journal of Physical Chemistry B, 1997, 101, 4709-4716.	2.6	41
10	A nanosecond laser flash photolysis study of aqueous 4-chlorophenol. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 96, 35-43.	3.9	37
11	Solvent effects on the photophysical properties of 9,10-dicyanoanthracene. Physical Chemistry Chemical Physics, 2002, 4, 161-167.	2.8	36
12	Factors Affecting the Rate of Decay of the First Excited Singlet State of Molecular Oxygen O2(aÎ”g) in Supercritical Fluid Carbon Dioxide. Journal of Physical Chemistry A, 2001, 105, 1270-1276.	2.5	32
13	Spectroscopy and photophysics of flavin-related compounds: 5-deaza-riboflavin. Journal of Molecular Structure, 2006, 783, 184-190.	3.6	29
14	Spectroscopy and photophysics of dimethyl-substituted alloxazines. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 148-160.	3.9	23
15	Spectroscopy and photophysics of mono methyl-substituted alloxazines. Chemical Physics, 2004, 301, 95-103.	1.9	22
16	In Search of Excited-State Proton Transfer in the Lumichrome Dimer in the Solid State:Â Theoretical and Experimental Approach. Journal of Physical Chemistry A, 2006, 110, 4638-4648.	2.5	20
17	New photochemically stable riboflavin analogueâ€”3-Methyl-riboflavin tetraacetate. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 186, 14-23.	3.9	20
18	Methylene blue based protein solder for vascular anastomoses: An in vitro burst pressure study. , 2000, 26, 323-329.		19

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19	Spectroscopy and photophysics of 6,7-dimethyl-alloxazine: experimental and theoretical study. Journal of Molecular Structure, 2004, 697, 199-205.	3.6	19
20	Kinetic spectroscopy of pyrazolotriazole azomethine dyes. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 2385.	1.7	18
21	Spectroscopy and Ionâ^'Electron Recombination Kinetics of Radical Ions of Anthracenes and Substituted Anilines on Silica Gel. Journal of Physical Chemistry B, 1999, 103, 9255-9261.	2.6	18
22	Synthesis and Characterization of Fluorescent Poly(aromatic amide) Dendrimers. Journal of Organic Chemistry, 2005, 70, 63-78.	3.2	18
23	Photochemistry in modified supercritical carbon dioxide. Effect of modifier concentration on diffusion probed by tripletâ€“triplet energy transfer. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1467-1471.	1.7	17
24	Quantitative Rate Constants for Radical Reactions in the Nanopores of Cotton. Journal of the American Chemical Society, 2002, 124, 8532-8533.	13.7	17
25	Photophysics of methyl substituted alloxazines in water: efficiency of singlet oxygen generation. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 149, 39-44.	3.9	17
26	Quantitative rate constants for the reaction of dyes and alkenes with Î±-hydroxyalkyl radicals, measured by laser flash photolysis. Photochemical and Photobiological Sciences, 2003, 2, 518-523.	2.9	17
27	Photophysics of 1-methyllumichrome. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 162, 193-201.	3.9	17
28	Electron Transfer on Insulator Surfaces:â€‰ Exciplex Emission and the Role of Electron Diffusion in Determining Radical Deactivation Rates. Journal of Physical Chemistry A, 1998, 102, 5484-5490.	2.5	14
29	Spectroscopy and photophysics of flavin-related compounds: 3-ethyl-lumiflavin. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 170, 267-272.	3.9	14
30	Photosensitised production of singlet oxygen, (Î"), in the unique `heavy-atom' solvent, supercritical fluid xenon. Pressure dependence of electronic to vibrational energy conversion during quenching of (Î") by xenon and by ground state oxygen. Chemical Physics Letters, 2001, 343, 273-280.	2.6	13
31	Perinaphthenone phototransformation in a model of leaf epicuticular waxes. Journal of Photochemistry and Photobiology B: Biology, 2014, 130, 93-101.	3.8	13
32	Spectroscopy and photophysics of 9-methylalloxazine. Experimental and theoretical study. Journal of Molecular Structure, 2004, 689, 121-126.	3.6	11
33	Electron transfer reactions in ternary systems on silica gel surfaces: evidence for radical cation diffusion. Photochemical and Photobiological Sciences, 2010, 9, 937-941.	2.9	11
34	Laser flash photolysis study of electron transfer processes of adsorbed anthracene on titaniaâ€“silica surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 230, 45-55.	4.7	10
35	Controlling factors in electron and energy transfer reactions on silica gel surfaces. Photochemical and Photobiological Sciences, 2002, 1, 896-901.	2.9	9
36	Bimolecular processes on silica gel surfaces: energetic factors in determining electron-transfer rates. Photochemical and Photobiological Sciences, 2004, 3, 63.	2.9	9

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37	Photosensitized production of singlet oxygen and factors governing its decay in xenon and carbon dioxide supercritical fluids. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 186, 263-269.	3.9	9
38	Probing solubilization sites in block copolymer micelles using fluorescence quenching. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 49-54.	3.9	9
39	Activation energies of photoinduced unimolecular, bimolecular and termolecular processes on silica gel surfaces. Photochemical and Photobiological Sciences, 2011, 10, 84-90.	2.9	6
40	Variations in efficiencies of triplet state and exciplex formation following fluorescence quenching of 9,10-dicyanoanthracene due to charge transfer interactionsThis paper is dedicated to Professor Jean Kossanyi on the event of his 70th birthday.. Photochemical and Photobiological Sciences, 2003, 2, 212.	2.9	5
41	Ionâ€“electron recombination on silica gel surfaces: experiment and modelling. Photochemical and Photobiological Sciences, 2006, 5, 844-849.	2.9	5
42	Electron transfer processes of coadsorbed Anthracene and N,N-Dimethylaniline on titania-silica. International Journal of Photoenergy, 2004, 6, 11-16.	2.5	4
43	Solar energy revisited: creating and using GrÃtzel cells at school. Physics Education, 2006, 41, 377-378.	0.5	4
44	Probing the interplay between factors determining reaction rates on silica gel using termolecular systems. Photochemical and Photobiological Sciences, 2012, 11, 1585-1591.	2.9	3
45	Energy and electron transfer reactions on silica gel and titaniaâ€“silica mixed oxide surfaces. Research on Chemical Intermediates, 2019, 45, 4205-4223.	2.7	3
46	Solubilization of phenols by multimolecular aggregates formed by low molecular weight hyperbranched polyglycidol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 526, 1-7.	4.7	2
47	Alkylation of Porous Silicon by Direct Reaction with Alkenes and Alkynes. , 1998, 37, 2683.		2