Hugh D Burrows

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304 papers	7,954 citations	45 h-index	68 g-index
311 ext. papers	8,345 ext. citations	4.5 avg, IF	5.64 L-index

#	Paper	IF	Citations
304	Reaction pathways and mechanisms of photodegradation of pesticides. *Journal of Photochemistry and Photobiology B: Biology*, **2002**, 67, 71-108	6.7	455
303	The photochemistry of the uranyl ion. *Chemical Society Reviews*, **1974**, 3, 139	58.5	284
302	Triplet energies of pi-conjugated polymers. *Physical Review Letters*, **2001**, 86, 1358-61	7.4	238
301	Binary Mutual Diffusion Coefficients of Aqueous Solutions of Sucrose, Lactose, Glucose, and Fructose in the Temperature Range from (298.15 to 328.15) K. *Journal of Chemical & Engineering Data*, **2006**, 51, 1836-1840	2.8	128
300	Kinetics and Thermodynamics of Poly(9,9-dioctylfluorene) β-Phase Formation in Dilute Solution. *Macromolecules*, **2006**, 39, 5854-5864	5.5	113
299	S1~>T1 intersystem crossing in π-conjugated organic polymers. *Journal of Chemical Physics*, **2001**, 115, 9601-9606	3.9	111
298	The thermal behaviour of divalent and higher valent metal soaps: a review. *Thermochimica Acta*, **1992**, 208, 1-41	2.9	96
297	Characterization of the triplet state of tris(8-hydroxyquinoline)aluminium(III) in benzene solution. *Journal of the American Chemical Society*, **2003**, 125, 15310-1	16.4	94
296	Triplet state dynamics on isolated conjugated polymer chains. *Chemical Physics*, **2002**, 285, 3-11	2.3	92
295	Photophysics of thiophene based polymers in solution: The role of nonradiative decay processes. *Journal of Chemical Physics*, **2003**, 118, 1550-1556	3.9	87
294	Influence of Solvent Quality on the Self-Organization of Archetypical Hairy Rods: Branched and Linear Side Chain Polyfluorenes: Rodlike Chains versus Beta-Sheets in Solution. *Macromolecules*, **2006**, 39, 6505-6512	5.5	83
293	Alternating Binaphthyl-Thiophene Copolymers: Synthesis, Spectroscopy, and Photophysics and Their Relevance to the Question of Energy Migration versus Conformational Relaxation. *Macromolecules*, **2009**, 42, 1710-1719	5.5	81
292	The structure and thermal behaviour of some long chain cerium(III) carboxylates. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 1729-1736		80
291	Influence of Side Chain Length on the Self-Assembly of Hairy-Rod Poly(9,9-dialkylfluorene)s in the Poor Solvent Methylcyclohexane. *Macromolecules*, **2007**, 40, 9398-9405	5.5	79
290	On the triplet state of poly(N-vinylcarbazole). *Chemical Physics Letters*, **2004**, 400, 441-445	2.5	73
289	Picosecond conformational relaxation of singlet excited polyfluorene in solution. *Journal of Chemical Physics*, **2003**, 118, 7119-7126	3.9	72
288	Cationic polythiophene-surfactant self-assembly complexes: phase transitions, optical response, and sensing. *Langmuir*, **2012**, 28, 12348-56	4	67

287	Kinetic and thermodynamic character of reducing species produced on pulse radiolysis of acetonitrile. *Journal of the Chemical Society Faraday Transactions I*, **1977**, 73, 315		67
286	All-conjugated polyelectrolyte block copolymers. *Journal of Materials Chemistry*, **2010**, 20, 1423-1430		65
285	Interplay of electrostatic and hydrophobic effects with binding of cationic gemini surfactants and a conjugated polyanion: experimental and molecular modeling studies. *Journal of Physical Chemistry B*, **2007**, 111, 4401-10	3.4	65
284	Changes in hydration of lanthanide ions on binding to DNA in aqueous solution. *Langmuir*, **2005**, 21, 10492-6	4	65
283	Structure and "surfactochromic" properties of conjugated polyelectrolyte (CPE): surfactant complexes between a cationic polythiophene and SDS in water. *Langmuir*, **2010**, 26, 15634-43	4	64
282	A comparative study of water soluble 5,10,15,20-tetrakis(2,6-dichloro-3-sulfophenyl)porphyrin and its metal complexes as efficient sensitizers for photodegradation of phenols. *Photochemical and Photobiological Sciences*, **2005**, 4, 617-24	4.2	64
281	Quenching of the luminescent state of the uranyl ion (UO2+2) by metal ions. Evidence for an electron transfer mechanism. *Journal of the Chemical Society Faraday Transactions I*, **1976**, 72, 163		63
280	Spectral and photophysical studies of substituted indigo derivatives in their keto forms. *ChemPhysChem*, **2006**, 7, 2303-11	3.2	62
279	Fast and Slow Time Regimes of Fluorescence Quenching in Conjugated Polyfluorene–Fluorenone Random Copolymers: The Role of Exciton Hopping and Dexter Transfer along the Polymer Backbone. *Macromolecules*, **2006**, 39, 1598-1606	5.5	62
278	Conformational relaxation of p-phenylenevinylene trimers in solution studied by picosecond time-resolved fluorescence. *ChemPhysChem*, **2007**, 8, 2657-64	3.2	60
277	Transport properties of alkyltrimethylammonium bromide surfactants in aqueous solutions. *Colloid and Polymer Science*, **2004**, 283, 277-283	2.4	59
276	The effect of conjugation length on triplet energies, electron delocalization and electron–electron correlation in soluble polythiophenes. *Journal of Chemical Physics*, **2001**, 115, 9046-9049	3.9	57
275	Inorganic helping organic: recent advances in catalytic heterogeneous oxidations by immobilised tetrapyrrolic macrocycles in micro and mesoporous supports. *RSC Advances*, **2013**, 3, 22774	3.7	56
274	Solubilization of polyelectrolytic hairy-rod polyfluorene in aqueous solutions of nonionic surfactant. *Journal of Physical Chemistry B*, **2006**, 110, 10248-57	3.4	56
273	Photooxidation of 4-chlorophenol sensitised by iron meso-tetrakis(2,6-dichloro-3-sulfophenyl)porphyrin in aqueous solution. *Photochemical and Photobiological Sciences*, **2004**, 3, 200-4	4.2	53
272	Aggregation of the hairy rod conjugated polyelectrolyte poly{1,4-phenylene-[9,9-bis(4-phenoxybutylsulfonate)]fluorene-2,7-diyl} in aqueous solution: an experimental and molecular modelling study. *Physical Chemistry Chemical Physics*, **2008**, 10, 4420-8	3.6	51
271	Aqueous solutions of uranium(VI) as studied by time-resolved emission spectroscopy: a round-robin test. *Applied Spectroscopy*, **2003**, 57, 1027-38	3.1	51
270	Immobilization of halogenated porphyrins and their copper complexes in MCM-41: Environmentally friendly photocatalysts for the degradation of pesticides. *Applied Catalysis B: Environmental*, **2010**, 100, 1-9	21.8	50

269	Kinetics and Mechanism of Photodegradation of Chlorophenols. *Progress in Reaction Kinetics and Mechanism*, **1998**, 23, 145-207	0.5	48
268	Binary Mutual Diffusion Coefficients of Aqueous Solutions of Cyclodextrin, 2-Hydroxypropyl-cyclodextrin, and 2-Hydroxypropyl-cyclodextrin at Temperatures from (298.15 to 312.15) K. *Journal of Chemical & Engineering Data*, **2007**, 52, 586-590	2.8	47
267	Interaction between the water soluble poly{1,4-phenylene-[9,9-bis(4-phenoxy butylsulfonate)]fluorene-2,7-diyl} copolymer and ionic surfactants followed by spectroscopic and conductivity measurements. *Journal of Physical Chemistry B*, **2005**, 109, 19108-15	3.4	47
266	Photophysics of an indigo derivative (keto and leuco structures) with singular properties. *Journal of Physical Chemistry A*, **2006**, 110, 13653-61	2.8	47
265	Deactivation processes of the lowest excited state of [UO2(H2O)5]2+ in aqueous solution. *Photochemical and Photobiological Sciences*, **2003**, 2, 569-75	4.2	47
264	Hole formation and transfer in poly[9,9-di(ethylhexyl)fluorene] and an amine end-capped derivative in solution. *Chemical Physics Letters*, **2004**, 385, 105-110	2.5	46
263	Synthesis, spectra and photophysics of some free base tetrafluoroalkyl and tetrafluoroaryl porphyrins with potential applications in imaging. *Photochemistry and Photobiology*, **2002**, 75, 249-56	3.6	46
262	Monitoring Ternary Systems of C12E5/Water/Tetradecane via the Fluorescence of Solvatochromic Probes. *Journal of Physical Chemistry B*, **2002**, 106, 4061-4069	3.4	46
261	Electron-Transfer Oxidation of Chlorophenols by Uranyl Ion Excited State in Aqueous Solution. Steady-State and Nanosecond Flash Photolysis Studies. *Journal of Physical Chemistry A*, **2000**, 104, 3142-3149	2.8	46
260	.beta.-Carboline Photosensitizers. 3. Studies on Ground and Excited State Partitioning in AOT/Water/Cyclohexane Microemulsions. *The Journal of Physical Chemistry*, **1995**, 99, 16093-16100		46
259	Novel porphyrins and a chlorin as efficient singlet oxygen photosensitizers for photooxidation of naphthols or phenols to quinones. *Perkin Transactions II RSC*, **2000**, 2441-2447		45
258	Applications and limitations of uranyl ion as a photophysical probe. *Advances in Colloid and Interface Science*, **2001**, 89-90, 485-96	14.3	44
257	Photodegradation of atrazine and ametryn with visible light using water soluble porphyrins as sensitizers. *Environmental Chemistry Letters*, **2007**, 5, 29-33	13.3	43
256	Triplet-state and singlet oxygen formation in fluorene-based alternating copolymers. *Journal of Physical Chemistry B*, **2006**, 110, 8278-83	3.4	43
255	Effect of terbium(III) chloride on the micellization properties of sodium decyl- and dodecyl-sulfate solutions. *Journal of Colloid and Interface Science*, **2007**, 306, 166-74	9.3	42
254	Photophysical studies of alpha,omega-dicyano-oligothiophenes NC(C4H2S)nCN (n = 1-6). *Journal of Physical Chemistry B*, **2006**, 110, 6499-505	3.4	42
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239	Cyanobacteria and microalgae: a renewable source of bioactive compounds and other chemicals. *Science Progress*, **2015**, 98, 145-68	1.1	35
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232	Structural considerations and reactivity of peroxocomplexes of V(V), Mo(VI) and W(VI). *Dalton Transactions*, **2011**, 40, 4374-83	4.3	33
231	Photophysics of the excited uranyl ion in aqueous solutions. Part 6.Quenching effects of aliphatic alcohols. *Journal of the Chemical Society Faraday Transactions I*, **1989**, 85, 2625		33
230	The thermal behaviour and spectral properties of some long chain copper(II) carboxylates. *Thermochimica Acta*, **1982**, 52, 121-129	2.9	33
229	Synthesis of new metalloporphyrin triads: efficient and versatile tripod optical sensor for the detection of amines. *Inorganic Chemistry*, **2011**, 50, 7916-8	5.1	32
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227	Cationic fluorene-thiophene diblock copolymers: Aggregation behaviour in methanol/water and its relation to thin film structures. *Polymer*, **2010**, 51, 1898-1903	3.9	32
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225	Synthesis, Structural and Photophysical Evaluations of Urea Based Fluorescent PET Sensors for Anions. *Supramolecular Chemistry*, **2008**, 20, 407-418	1.8	32
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221	Cation Association with Sodium Dodecyl Sulfate Micelles As Seen by Lanthanide Luminescence. *Journal of Physical Chemistry B*, **2002**, 106, 6966-6972	3.4	32
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219	Fluorene based conjugated polyelectrolyte/silica nanocomposites: charge-mediated phase aggregation at the organic-inorganic interface. *Advanced Materials*, **2010**, 22, 3032-7	24	31
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217	Size and ability do matter! Influence of acidity and pore size on the synthesis of hindered halogenated meso-phenyl porphyrins catalysed by porous solid oxides. *Chemical Communications*, **2014**, 50, 6571-3	5.8	30
216	Association between ammonium monovanadate and cyclodextrin as seen by NMR and transport techniques. *Polyhedron*, **2006**, 25, 3581-3587	2.7	30

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212	Catalytic oxidative degradation of s-triazine and phenoxyalkanoic acid based herbicides with metalloporphyrins and hydrogen peroxide: Identification of two distinct reaction schemes. *Journal of Molecular Catalysis A*, **2009**, 297, 35-43		29
211	Luminescence from cerium(III) acetate complexes in aqueous solution: considerations on the nature of carboxylate binding to trivalent lanthanides. *New Journal of Chemistry*, **2008**, 32, 1531	3.6	29
210	Interactions of Copper (II) Chloride with Cyclodextrin in Aqueous Solutions. *Journal of Carbohydrate Chemistry*, **2006**, 25, 173-185	1.7	29
209	Halide ion induced quenching and enhancement of the fluorescence of fluoranthene solubilized in cetyltrimethylammonium bromide (CTAB) micelles. *Journal of the Chemical Society, Faraday Transactions 2*, **1980**, 76, 685		29
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198	207Pb N.M.R. of lead(II) soaps in solid, liquid-crystalline and liquid phases. *Liquid Crystals*, **1988**, 3, 853-860	1.3	26

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192	Photoacoustic measurement of electron injection efficiencies and energies from excited sensitizer dyes into nanocrystalline TiO2 films. *Journal of the American Chemical Society*, **2008**, 130, 8876-7	16.4	24
191	Diffusion coefficients of sodium dodecylsulfate in aqueous solutions of sucrose and in aqueous solutions. *Journal of Molecular Liquids*, **2001**, 94, 193-201	6	24
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188	[8+2]-Cycloaddition of meso-Tetra- and 5,15-Diarylporphyrins: Synthesis and Photophysical Characterization of Stable Chlorins and Bacteriochlorins. *European Journal of Organic Chemistry*, **2011**, 2011, 3970-3979	3.2	23
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186	Singlet-singlet energy transfer in self-assembled systems of the cationic poly{9,9-bis[6-N,N,N-trimethylammonium)hexyl]fluorene-co-1,4-phenylene} with oppositely charged porphyrins. *Journal of Physical Chemistry B*, **2009**, 113, 16093-100	3.4	23
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182	The interaction of long chain sodium carboxylates and sodium dodecylsulfate with lead(II) ions in aqueous solutions. *Journal of Colloid and Interface Science*, **2014**, 414, 66-72	9.3	21
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175	Effect of metal ion hydration on the interaction between sodium carboxylates and aluminum(III) or chromium(III) ions in aqueous solution. *Langmuir*, **2012**, 28, 168-77	4	19
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169	Structural characterization of solid trivalent metal dodecyl sulfates: from aqueous solution to lamellar superstructures. *RSC Advances*, **2013**, 3, 1420-1433	3.7	18
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166	On the flocculation and re-dissolution of trivalent lanthanide metal ions by sodium dodecyl sulfate in aqueous solutions. *Journal of Colloid and Interface Science*, **2011**, 354, 670-6	9.3	18
165	Solute ion and radical formation in the pulse radiolysis of acetonitrile solutions. *Journal of the Chemical Society Faraday Transactions I*, **1974**, 70, 2066		18
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1	Winners of the 2020 IUPAC-SOLVAY International Award for Young Chemists. *Pure and Applied Chemistry*, **2021**, 93, 167-168	2.1	