James N Wilson

List of Publications by Year
in descending order

68 papers	3,663 citations	186209 28 h-index	123376 61 g-index
71 all docs	71 docs citations	71 times ranked	4601 citing authors

#	Article	IF	Citations
1	Fluorescent molecular rotors as sensors for the detection of thymidine phosphorylase. Bioorganic and Medicinal Chemistry, 2021, 29, 115881.	1.4	1
2	Nonlinear Dependence on Na⁺ Ions for the Binding Dynamics of Cucurbit[6]uril with the trans-1-Methyl-4-(4-hydroxystyryl)pyridinium Cation. Journal of Physical Chemistry B, 2020, 124, 10219-10225.	1.2	4
3	Bright and compact macromolecular probes for bioimaging applications. , 2018, , .		0
4	Bioimaging with Macromolecular Probes Incorporating Multiple BODIPY Fluorophores. Bioconjugate Chemistry, 2017, 28, 1519-1528.	1.8	28
5	Highlighting Cancer Cells with Halochromic Switches. ACS Sensors, 2017, 2, 92-101.	4.0	20
6	Synthesis and photophysical properties of a fluorescent cyanoquinoline probe for profiling ERBB2 kinase inhibitor response. Bioorganic and Medicinal Chemistry, 2017, 25, 6016-6023.	1.4	8
7	Functionalized lignin biomaterials for enhancing optical properties and cellular interactions of dyes. Biomaterials Science, 2017, 5, 2114-2121.	2.6	8
8	Fluorescent Neurotransmitter Analogs. , 2016, , 393-408.		0
9	In vitro/in vivo study of novel anti-cancer, biodegradable cross-linked tannic acid for fabrication of 5-fluorouracil-targeting drug delivery nano-device based on a molecular imprinted polymer. RSC Advances, 2016, 6, 37308-37318.	1.7	51
10	A New Design Strategy and Diagnostic to Tailor the DNA-Binding Mechanism of Small Organic Molecules and Drugs. ACS Chemical Biology, 2016, 11, 3202-3213.	1.6	13
11	Fluorescent Kinase Probes Enabling Identification and Dynamic Imaging of HER2(+) Cells. Analytical Chemistry, 2016, 88, 11310-11313.	3.2	7
12	Organic cation transporter 3 contributes to norepinephrine uptake into perivascular adipose tissue. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1904-H1914.	1.5	40
13	Characteristic Fluorescence Response of (6â€Hydroxyâ€2â€naphthyl)ethenyl Pyridinium Dyes with Bovine Serum Albumin. Bulletin of the Korean Chemical Society, 2015, 36, 230-236.	1.0	2
14	Two-Photon Spectroscopy as a New Sensitive Method for Determining the DNA Binding Mode of Fluorescent Nuclear Dyes. Journal of the American Chemical Society, 2015, 137, 9198-9201.	6.6	32
15	Binding-induced, turn-on fluorescence of the EGFR/ERBB kinase inhibitor, lapatinib. Organic and Biomolecular Chemistry, 2015, 13, 5006-5011.	1.5	26
16	One probe, two-channel imaging of nuclear and cytosolic compartments with orange and red emissive dyes. Organic and Biomolecular Chemistry, 2015, 13, 9477-9484.	1.5	19
17	Binding-Induced Fluorescence of Serotonin Transporter Ligands: A Spectroscopic and Structural Study of 4-(4-(Dimethylamino)phenyl)-1-methylpyridinium (APP⁺) and APP⁺ Analogues. ACS Chemical Neuroscience, 2014, 5, 296-304.	1.7	21
18	Highly differentiated fluorescence quenching of hemoglobin using aÂstilbazolium dye. Dyes and Pigments, 2014, 101, 38-42.	2.0	14

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19	Emission Tuning of Fluorescent Kinase Inhibitors: Conjugation Length and Substituent Effects. Journal of Organic Chemistry, 2014, 79, 4940-4947.	1.7	27
20	Base Pair Sensitivity and Enhanced ON/OFF Ratios of DNA-Binding: Donorâ€“Acceptorâ€“Donor Fluorophores. Journal of Physical Chemistry B, 2013, 117, 12000-12006.	1.2	18
21	Turn-On, Fluorescent Nuclear Stains with Live Cell Compatibility. Organic Letters, 2013, 15, 1330-1333.	2.4	27
22	Fluorescent stilbazolium dyes as probes of the norepinephrine transporter: structural insights into substrate binding. Organic and Biomolecular Chemistry, 2012, 10, 8710.	1.5	19
23	Probing the functional limits of the norepinephrine transporter with self-reporting, fluorescent stilbazolium dimers. Organic and Biomolecular Chemistry, 2012, 10, 1493.	1.5	10
24	Emission Switching of 4,6-Diphenylpyrimidones: Solvent and Solid State Effects. Journal of Physical Chemistry A, 2012, 116, 8671-8677.	1.1	8
25	A fluorescent reporter of ATP binding-competent receptor kinases. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 5532-5535.	1.0	8
26	Photophysical Characterization of a Benzo-Fused Analogue of Brookerâ€™s Merocyanine: Solvent Polarity and pH Effects. Journal of Physical Chemistry A, 2012, 116, 12470-12475.	1.1	15
27	New guests for the cucurbit[8]uril host. Formation of G₂H ternary complexes. Journal of Physical Organic Chemistry, 2012, 25, 592-596.	0.9	14
28	Highly Chromic, Proton-Responsive Phenyl Pyrimidones. Organic Letters, 2011, 13, 4188-4191.	2.4	13
29	Luminescent Charge-Transfer Complexes: Tuning Emission in Binary Fluorophore Mixtures. Langmuir, 2011, 27, 6554-6558.	1.6	44
30	Fluorescent neuroactive probes based on stilbazolium dyes. Organic and Biomolecular Chemistry, 2011, 9, 2142.	1.5	25
31	Fluorescent reporters of monoamine transporter distribution and function. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 7387-7391.	1.0	6
32	Evidence of preferential Ï€-stacking: a study of intermolecular and intramolecular charge transfer complexes. Chemical Communications, 2010, 46, 5464.	2.2	88
33	Polyfluorophore Labels on DNA: Dramatic Sequence Dependence of Quenching. Chemistry - A European Journal, 2009, 15, 11551-11558.	1.7	22
34	Polyfluorophores on a DNA Backbone: A Multicolor Set of Labels Excited at One Wavelength. Journal of the American Chemical Society, 2009, 131, 3923-3933.	6.6	113
35	Fluorescent mimics of 5-hydroxytryptamine based on N-alkylated derivatives of 6-hydroxycarbostyril. Chemical Communications, 2009, , 7548.	2.2	14
36	Quenching of Fluorescent Nucleobases by Neighboring DNA: The â€œInsulatorâ€•Concept. ChemBioChem, 2008, 9, 279-285.	1.3	93

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37	Optical Spectroscopy of Grafted Poly(p-phenyleneethynylene)s in Water and Waterâ^'DMF Mixtures. Macromolecules, 2008, 41, 1112-1117.	2.2	24
38	Efficient Quenching of Oligomeric Fluorophores on a DNA Backbone. Journal of the American Chemical Society, 2007, 129, 15426-15427.	6.6	70
39	Oligodeoxyfluorosides: strong sequence dependence of fluorescence emission. Tetrahedron, 2007, 63, 3427-3433.	1.0	61
40	Supramolecular cruciforms. Chemical Communications, 2006, , 2141.	2.2	60
41	Fluorescent DNA base replacements: reporters and sensors for biological systems. Organic and Biomolecular Chemistry, 2006, 4, 4265.	1.5	239
42	Reduced Fluorescence Quenching of Cyclodextrinâ^'Acetylene Dye Rotaxanes. Journal of the American Chemical Society, 2006, 128, 7714-7715.	6.6	94
43	Cruciforms as Functional Fluorophores:Â Response to Protons and Selected Metal Ions. Journal of the American Chemical Society, 2006, 128, 11872-11881.	6.6	170
44	New designs for DNA bases: Expanded DNAs and oligofluorosides. Nucleic Acids Symposium Series, 2006, 50, 15-16.	0.3	10
45	Mannose-substituted PPEs detect lectins: A model for Ricin sensing. Chemical Communications, 2005, , 1273.	2.2	92
46	Switching of Intramolecular Charge Transfer in Cruciforms:Â Metal Ion Sensing. Journal of the American Chemical Society, 2005, 127, 4124-4125.	6.6	198
47	Photoresponsivity of polymer thin-film transistors based on polyphenyleneethynylene derivative with improved hole injection. Applied Physics Letters, 2004, 85, 4219-4221.	1.5	60
48	Light Sensitive Polymer Thin Film Transistors Based on BAS-PPE. Materials Research Society Symposia Proceedings, 2004, 814, 152.	0.1	0
49	Synthesis and Electronic Properties of Bis-styryl Substituted Trimeric Aryleneethynylenes. Comparison of Cruciforms (I) with iso-Cruciforms (II).. ChemInform, 2004, 35, no.	0.1	0
50	Sugar-Poly(para-phenylene ethynylene) Conjugates as Sensory Materials: Efficient Quenching by Hg2+ and Pb2+ Ions. Chemistry - A European Journal, 2004, 10, 6247-6254.	1.7	198
51	Synthesis and electronic properties of bis-styryl substituted trimeric aryleneethynylenes. Comparison of cruciforms with iso-cruciforms. Tetrahedron, 2004, 60, 7157-7167.	1.0	34
52	Cruciform Ï€-systems: effect of aggregation on emission. Chemical Communications, 2004, , 1700-1701.	2.2	70
53	Permanent Bubble Arrays from a Cross-Linked Poly(para-phenyleneethynylene):Â Picoliter Holes without Microfabrication. Journal of the American Chemical Society, 2004, 126, 3678-3679.	6.6	132
54	TEMPO-Substituted PPEs:Â Polystyrene-PPE Graft Copolymers and Double Graft Copolymers. Macromolecules, 2004, 37, 9701-9708.	2.2	18

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55	Chromicity in Poly(aryleneethynylene)s. ACS Symposium Series, 2004, , 147-160.	0.5	7
56	Preferential End-to-End Assembly of Gold Nanorods by Biotinâ˜Streptavidin Connectors. Journal of the American Chemical Society, 2003, 125, 13914-13915.	6.6	643
57	Nanostructuring of Poly(aryleneethynylene)s:Â Formation of Nanotowers, Nanowires, and Nanotubules by Templated Self-Assembly. Macromolecules, 2003, 36, 1426-1428.	2.2	39
58	Excitation Induced Emission Color Change in Conjugated Polymers. Journal of Physical Chemistry B, 2003, 107, 11604-11607.	1.2	6
59	â€œSurfactochromicâ€•Conjugated Polymers:â€‰ Surfactant Effects on Sugar-Substituted PPEs. Macromolecules, 2003, 36, 7409-7412.	2.2	127
60	A biosensing model system: selective interaction of biotinylated PPEs with streptavidin-coated polystyrene microspheresElectronic supplementary information (ESI) available: experimental, including details of preparation and spectroscopic characterization of all new compounds and biotinylation assay of 3 by streptavidin. See http://www.rsc.org/suppdata/cc/b3/b303700m/. Chemical Communications, 2003, , 1626.	2.2	50
61	Grafted conjugated polymers: synthesis and characterization of a polyester side chain substituted poly(paraphenyleneethynylene)Electronic supplementary information (ESI) available: experimental, including details of preparation and spectroscopic characterization of all new compounds. See http://www.rsc.org/suppdata/cc/b3/b303699p/. Chemical Communications, 2003, , 1624.	2.2	25
62	Cruciform Ï€-systems: hybrid phenylene-ethynylene/phenylene-vinylene oligomers. Chemical Communications, 2003, , 2962-2963.	2.2	80
63	Acetylene Gas:Â A Reagent in the Synthesis of High Molecular Weight Poly(p-phenyleneethynylene)s Utilizing Very Low Catalyst Loadings. Macromolecules, 2002, 35, 3799-3800.	2.2	27
64	Chiroptical Properties of Poly(p-phenyleneethynylene) Copolymers in Thin Films:Â Largeg-Values. Journal of the American Chemical Society, 2002, 124, 6830-6831.	6.6	148
65	Band Gap Engineering of Poly(p-phenyleneethynylene)s:Â Cross-Conjugated PPEâ˜PPV Hybrids. Macromolecules, 2002, 35, 8681-8683.	2.2	77
66	Synthesis and Mesoscopic Order of a Sugar-Coated Poly(p-phenyleneethynylene). Macromolecules, 2002, 35, 7863-7864.	2.2	46
67	Metallurgical analysis and computer simulation of a solid steel sphere under shock loading. High Pressure Research, 2001, 21, 1-14.	0.4	0
68	Metallurgical analysis and computer simulation of a solid steel sphere under shock loading. AIP Conference Proceedings, 2000, , .	0.3	0