

# James N Wilson

## List of Publications by Year in descending order

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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	Preferential End-to-End Assembly of Gold Nanorods by Biotin~Streptavidin Connectors. <i>Journal of the American Chemical Society</i> , 2003, 125, 13914-13915.	6.6	643
2	Fluorescent DNA base replacements: reporters and sensors for biological systems. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 4265.	1.5	239
3	Sugar-Poly(para-phenylene ethynylene) Conjugates as Sensory Materials: Efficient Quenching by Hg <sup>2+</sup> and Pb <sup>2+</sup> Ions. <i>Chemistry - A European Journal</i> , 2004, 10, 6247-6254.	1.7	198
4	Switching of Intramolecular Charge Transfer in Cruciforms:~Metal Ion Sensing. <i>Journal of the American Chemical Society</i> , 2005, 127, 4124-4125.	6.6	198
5	Cruciforms as Functional Fluorophores:~Response to Protons and Selected Metal Ions. <i>Journal of the American Chemical Society</i> , 2006, 128, 11872-11881.	6.6	170
6	Chiroptical Properties of Poly(p-phenyleneethynylene) Copolymers in Thin Films:~Large Values. <i>Journal of the American Chemical Society</i> , 2002, 124, 6830-6831.	6.6	148
7	Permanent Bubble Arrays from a Cross-Linked Poly(para-phenyleneethynylene):~Picoliter Holes without Microfabrication. <i>Journal of the American Chemical Society</i> , 2004, 126, 3678-3679.	6.6	132
8	~Surfactochromic~Conjugated Polymers:~Surfactant Effects on Sugar-Substituted PPEs. <i>Macromolecules</i> , 2003, 36, 7409-7412.	2.2	127
9	Polyfluorophores on a DNA Backbone: A Multicolor Set of Labels Excited at One Wavelength. <i>Journal of the American Chemical Society</i> , 2009, 131, 3923-3933.	6.6	113
10	Reduced Fluorescence Quenching of Cyclodextrin~Acetylene Dye Rotaxanes. <i>Journal of the American Chemical Society</i> , 2006, 128, 7714-7715.	6.6	94
11	Quenching of Fluorescent Nucleobases by Neighboring DNA: The ~Insulator~Concept. <i>ChemBioChem</i> , 2008, 9, 279-285.	1.3	93
12	Mannose-substituted PPEs detect lectins: A model for Ricin sensing. <i>Chemical Communications</i> , 2005, , 1273.	2.2	92
13	Evidence of preferential ~stacking: a study of intermolecular and intramolecular charge transfer complexes. <i>Chemical Communications</i> , 2010, 46, 5464.	2.2	88
14	Cruciform ~systems: hybrid phenylene-ethynylene/phenylene-vinylene oligomers. <i>Chemical Communications</i> , 2003, , 2962-2963.	2.2	80
15	Band Gap Engineering of Poly(p-phenyleneethynylene)s:~Cross-Conjugated PPE~PPV Hybrids. <i>Macromolecules</i> , 2002, 35, 8681-8683.	2.2	77
16	Cruciform ~systems: effect of aggregation on emission. <i>Chemical Communications</i> , 2004, , 1700-1701.	2.2	70
17	Efficient Quenching of Oligomeric Fluorophores on a DNA Backbone. <i>Journal of the American Chemical Society</i> , 2007, 129, 15426-15427.	6.6	70
18	Oligodeoxyfluorosides: strong sequence dependence of fluorescence emission. <i>Tetrahedron</i> , 2007, 63, 3427-3433.	1.0	61

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19	Photoresponsivity of polymer thin-film transistors based on polyphenyleneethynylene derivative with improved hole injection. <i>Applied Physics Letters</i> , 2004, 85, 4219-4221.	1.5	60
20	Supramolecular cruciforms. <i>Chemical Communications</i> , 2006, , 2141.	2.2	60
21	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. <i>RSC Advances</i> , 2016, 6, 37308-37318.	1.7	51
22	A biosensing model system: selective interaction of biotinylated PPEs with streptavidin-coated polystyrene microspheres Electronic supplementary information (ESI) available: experimental, including details of preparation and spectroscopic characterization of all new compounds and biotinylation assay of 3 by streptavidin. See <a href="http://www.rsc.org/suppdata/cc/b3/b303700m/">http://www.rsc.org/suppdata/cc/b3/b303700m/</a> . <i>Chemical Communications</i> , 2003, , 1626.	2.2	50
23	Synthesis and Mesoscopic Order of a Sugar-Coated Poly(p-phenyleneethynylene). <i>Macromolecules</i> , 2002, 35, 7863-7864.	2.2	46
24	Luminescent Charge-Transfer Complexes: Tuning Emission in Binary Fluorophore Mixtures. <i>Langmuir</i> , 2011, 27, 6554-6558.	1.6	44
25	Organic cation transporter 3 contributes to norepinephrine uptake into perivascular adipose tissue. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1904-H1914.	1.5	40
26	Nanostructuring of Poly(aryleneethynylene)s: Formation of Nanotowers, Nanowires, and Nanotubules by Templated Self-Assembly. <i>Macromolecules</i> , 2003, 36, 1426-1428.	2.2	39
27	Synthesis and electronic properties of bis-styryl substituted trimeric aryleneethynylenes. Comparison of cruciforms with iso-cruciforms. <i>Tetrahedron</i> , 2004, 60, 7157-7167.	1.0	34
28	Two-Photon Spectroscopy as a New Sensitive Method for Determining the DNA Binding Mode of Fluorescent Nuclear Dyes. <i>Journal of the American Chemical Society</i> , 2015, 137, 9198-9201.	6.6	32
29	Bioimaging with Macromolecular Probes Incorporating Multiple BODIPY Fluorophores. <i>Bioconjugate Chemistry</i> , 2017, 28, 1519-1528.	1.8	28
30	Acetylene Gas: A Reagent in the Synthesis of High Molecular Weight Poly(p-phenyleneethynylene)s Utilizing Very Low Catalyst Loadings. <i>Macromolecules</i> , 2002, 35, 3799-3800.	2.2	27
31	Turn-On, Fluorescent Nuclear Stains with Live Cell Compatibility. <i>Organic Letters</i> , 2013, 15, 1330-1333.	2.4	27
32	Emission Tuning of Fluorescent Kinase Inhibitors: Conjugation Length and Substituent Effects. <i>Journal of Organic Chemistry</i> , 2014, 79, 4940-4947.	1.7	27
33	Binding-induced, turn-on fluorescence of the EGFR/ERBB kinase inhibitor, lapatinib. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5006-5011.	1.5	26
34	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 <a href="http://www.rsc.org/suppdata/cc/b3/b303699p/">http://www.rsc.org/suppdata/cc/b3/b303699p/</a> . <i>Chemical Communications</i> , 2003, , 1624.	2.2	25
35	Fluorescent neuroactive probes based on stilbazolium dyes. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2142.	1.5	25
36	Optical Spectroscopy of Grafted Poly(p-phenyleneethynylene)s in Water and Water-DMF Mixtures. <i>Macromolecules</i> , 2008, 41, 1112-1117.	2.2	24

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37	Polyfluorophore Labels on DNA: Dramatic Sequence Dependence of Quenching. <i>Chemistry - A European Journal</i> , 2009, 15, 11551-11558.	1.7	22
38	Binding-Induced Fluorescence of Serotonin Transporter Ligands: A Spectroscopic and Structural Study of 4-(4-(Dimethylamino)phenyl)-1-methylpyridinium (APP <sup>+</sup> ) and APP <sup>+</sup> Analogues. <i>ACS Chemical Neuroscience</i> , 2014, 5, 296-304.	1.7	21
39	Highlighting Cancer Cells with Halochromic Switches. <i>ACS Sensors</i> , 2017, 2, 92-101.	4.0	20
40	Fluorescent stilbazolium dyes as probes of the norepinephrine transporter: structural insights into substrate binding. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8710.	1.5	19
41	One probe, two-channel imaging of nuclear and cytosolic compartments with orange and red emissive dyes. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 9477-9484.	1.5	19
42	TEMPO-Substituted PPEs: Polystyrene-PPE Graft Copolymers and Double Graft Copolymers. <i>Macromolecules</i> , 2004, 37, 9701-9708.	2.2	18
43	Base Pair Sensitivity and Enhanced ON/OFF Ratios of DNA-Binding: Donor-Acceptor Donor Fluorophores. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12000-12006.	1.2	18
44	Photophysical Characterization of a Benzo-Fused Analogue of Brooker's Merocyanine: Solvent Polarity and pH Effects. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12470-12475.	1.1	15
45	Fluorescent mimics of 5-hydroxytryptamine based on N-alkylated derivatives of 6-hydroxycarbostryl. <i>Chemical Communications</i> , 2009, , 7548.	2.2	14
46	New guests for the cucurbit[8]uril host. Formation of G <sub>2</sub> H ternary complexes. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 592-596.	0.9	14
47	Highly differentiated fluorescence quenching of hemoglobin using a stilbazolium dye. <i>Dyes and Pigments</i> , 2014, 101, 38-42.	2.0	14
48	Highly Chromic, Proton-Responsive Phenyl Pyrimidones. <i>Organic Letters</i> , 2011, 13, 4188-4191.	2.4	13
49	A New Design Strategy and Diagnostic to Tailor the DNA-Binding Mechanism of Small Organic Molecules and Drugs. <i>ACS Chemical Biology</i> , 2016, 11, 3202-3213.	1.6	13
50	New designs for DNA bases: Expanded DNAs and oligofluorosides. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 15-16.	0.3	10
51	Probing the functional limits of the norepinephrine transporter with self-reporting, fluorescent stilbazolium dimers. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1493.	1.5	10
52	Emission Switching of 4,6-Diphenylpyrimidones: Solvent and Solid State Effects. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8671-8677.	1.1	8
53	A fluorescent reporter of ATP binding-competent receptor kinases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5532-5535.	1.0	8
54	Synthesis and photophysical properties of a fluorescent cyanoquinoline probe for profiling ERBB2 kinase inhibitor response. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 6016-6023.	1.4	8

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55	Functionalized lignin biomaterials for enhancing optical properties and cellular interactions of dyes. <i>Biomaterials Science</i> , 2017, 5, 2114-2121.	2.6	8
56	Chromicity in Poly(aryleneethynylene)s. <i>ACS Symposium Series</i> , 2004, , 147-160.	0.5	7
57	Fluorescent Kinase Probes Enabling Identification and Dynamic Imaging of HER2(+) Cells. <i>Analytical Chemistry</i> , 2016, 88, 11310-11313.	3.2	7
58	Excitation Induced Emission Color Change in Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11604-11607.	1.2	6
59	Fluorescent reporters of monoamine transporter distribution and function. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 7387-7391.	1.0	6
60	Nonlinear Dependence on Na <sup>+</sup> Ions for the Binding Dynamics of Cucurbit[6]uril with the <i>trans</i> -1-Methyl-4-(4-hydroxystyryl)pyridinium Cation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10219-10225.	1.2	4
61	Characteristic Fluorescence Response of (6-Hydroxy-2-naphthyl)ethenyl Pyridinium Dyes with Bovine Serum Albumin. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 230-236.	1.0	2
62	Fluorescent molecular rotors as sensors for the detection of thymidine phosphorylase. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 29, 115881.	1.4	1
63	Metallurgical analysis and computer simulation of a solid steel sphere under shock loading. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
64	Metallurgical analysis and computer simulation of a solid steel sphere under shock loading. <i>High Pressure Research</i> , 2001, 21, 1-14.	0.4	0
65	Light Sensitive Polymer Thin Film Transistors Based on BAS-PPE. <i>Materials Research Society Symposia Proceedings</i> , 2004, 814, 152.	0.1	0
66	Synthesis and Electronic Properties of Bis-styryl Substituted Trimeric Aryleneethynylenes. Comparison of Cruciforms (I) with iso-Cruciforms (II).. <i>ChemInform</i> , 2004, 35, no.	0.1	0
67	Fluorescent Neurotransmitter Analogs. , 2016, , 393-408.		0
68	Bright and compact macromolecular probes for bioimaging applications. , 2018, , .		0