

Randall H Goldsmith

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,809
citations

22
h-index

41
g-index

76
ext. papers

2,172
ext. citations

11.4
avg, IF

4.74
L-index

#	Paper	IF	Citations
57	Underwater ultrasonic topological waveguides by metal additive manufacturing. <i>Applied Physics Letters</i> , 2022 , 120, 141702	3.4	1
56	A molecular computing approach to solving optimization problems via programmable microdroplet arrays. <i>Matter</i> , 2021 , 4, 1107-1124	12.7	1
55	cAMP binding to closed pacemaker ion channels is non-cooperative. <i>Nature</i> , 2021 , 595, 606-610	50.4	3
54	Efficient generation of optical bottle beams. <i>Nanophotonics</i> , 2021 , 10, 2893-2901	6.3	1
53	Theory of Apparent Circular Dichroism Reveals the Origin of Inverted and Noninverted Chiroptical Response under Sample Flipping.. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21519-21531	16.4	1
52	Role of Collagen Fiber Morphology on Ovarian Cancer Cell Migration Using Image-Based Models of the Extracellular Matrix. <i>Cancers</i> , 2020 , 12,	6.6	9
51	Exploiting chemistry and molecular systems for quantum information science. <i>Nature Reviews Chemistry</i> , 2020 , 4, 490-504	34.6	87
50	Optical monitoring of polymerizations in droplets with high temporal dynamic range. <i>Chemical Science</i> , 2020 , 11, 2647-2656	9.4	6
49	From Absorption Spectra to Charge Transfer in Nanoaggregates of Oligomers with Machine Learning. <i>ACS Nano</i> , 2020 , 14, 6589-6598	16.7	8
48	Top-down machine learning approach for high-throughput single-molecule analysis. <i>ELife</i> , 2020 , 9,	8.9	15
47	Elucidating Energy Pathways through Simultaneous Measurement of Absorption and Transmission in a Coupled Plasmonic-Photonic Cavity. <i>Nano Letters</i> , 2020 , 20, 50-58	11.5	11
46	Extended Range of Dipole-Dipole Interactions in Periodically Structured Photonic Media. <i>Physical Review Letters</i> , 2019 , 123, 173901	7.4	11
45	Migration dynamics of ovarian epithelial cells on micro-fabricated image-based models of normal and malignant stroma. <i>Acta Biomaterialia</i> , 2019 , 100, 92-104	10.8	7
44	Time-resolved multirotational dynamics of single solution-phase tau proteins reveals details of conformational variation. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1863-1871	3.6	8
43	Investigating the Mechanism of Post-Treatment on PEDOT/PSS via Single-Particle Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30781-30790	3.8	8
42	Toward Real-Time Monitoring and Control of Single Nanoparticle Properties with a Microbubble Resonator Spectrometer. <i>ACS Nano</i> , 2019 , 13, 12743-12757	16.7	13
41	Exploring Electronic Structure and Order in Polymers via Single-Particle Microresonator Spectroscopy. <i>Nano Letters</i> , 2018 , 18, 1600-1607	11.5	18

40	Limiting Optical Diodes Enabled by the Phase Transition of Vanadium Dioxide. <i>ACS Photonics</i> , 2018 , 5, 2688-2692	6.3	30
39	Single-particle photothermal imaging via inverted excitation through high-Q all-glass toroidal microresonators. <i>Optics Express</i> , 2018 , 26, 25020-25030	3.3	13
38	Optically Detected Magnetic Resonance for Selective Imaging of Diamond Nanoparticles. <i>Analytical Chemistry</i> , 2018 , 90, 769-776	7.8	8
37	Phase-sensitive photothermal imaging of ultrahigh-Q polyoxide toroidal microresonators. <i>Applied Physics Letters</i> , 2018 , 113, 231105	3.4	3
36	Mapping Forbidden Emission to Structure in Self-Assembled Organic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15827-15841	16.4	19
35	Drumming up single-molecule beats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11115-11117	11.5	
34	Observing Single-Molecule Dynamics at Millimolar Concentrations. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2399-2402	16.4	31
33	Observing Single-Molecule Dynamics at Millimolar Concentrations. <i>Angewandte Chemie</i> , 2017 , 129, 2439-2442	16.4	15
32	Optical Microresonators for Sensing and Transduction: A Materials Perspective. <i>Advanced Materials</i> , 2017 , 29, 1700037	24	45
31	Global Analysis of Perovskite Photophysics Reveals Importance of Geminate Pathways. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1062-1071	3.8	22
30	Investigation of activity, stability, and degradation mechanism of surface-supported Pd-PEPSSI complexes for Suzuki-Miyaura coupling. <i>Molecular Catalysis</i> , 2017 , 429, 10-17	3.3	7
29	Sculpting Fano Resonances To Control Photonic-Plasmonic Hybridization. <i>Nano Letters</i> , 2017 , 17, 6927-6934	9.3	32
28	Revealing Conformational Variants of Solution-Phase Intrinsically Disordered Tau Protein at the Single-Molecule Level. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15584-15588	16.4	17
27	Selective Stabilization and Photophysical Properties of Metastable Perovskite Polymorphs of CsPbI ₃ in Thin Films. <i>Chemistry of Materials</i> , 2017 , 29, 8385-8394	9.6	144
26	Tracking Lithium Ions via Widefield Fluorescence Microscopy for Battery Diagnostics. <i>ACS Sensors</i> , 2017 , 2, 903-908	9.2	15
25	Revealing Conformational Variants of Solution-Phase Intrinsically Disordered Tau Protein at the Single-Molecule Level. <i>Angewandte Chemie</i> , 2017 , 129, 15790-15794	3.6	4
24	Carrier Decay Properties of Mixed Cation Formamidinium-Methylammonium Lead Iodide Perovskite [HC(NH ₂)] ₂ [CH ₃ NH ₂] ₂ PbI ₃ Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 5036-5043	6.4	56
23	Optical Spectra of p-Doped PEDOT Nanoaggregates Provide Insight into the Material Disorder. <i>ACS Energy Letters</i> , 2016 , 1, 1100-1105	20.1	5

22	Optical microresonators as single-particle absorption spectrometers. <i>Nature Photonics</i> , 2016 , 10, 788-793	3.9	91
21	Optical Microresonators: Chip-Scale Fabrication of High-Q All-Glass Toroidal Microresonators for Single-Particle Label-Free Imaging (Adv. Mater. 15/2016). <i>Advanced Materials</i> , 2016 , 28, 2944-2944		24
20	Single-Molecule Investigation of Initiation Dynamics of an Organometallic Catalyst. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3876-83	16.4	57
19	Structure and dynamics underlying elementary ligand binding events in human pacemaking channels. <i>ELife</i> , 2016 , 5,	8.9	30
18	Chip-Scale Fabrication of High-Q All-Glass Toroidal Microresonators for Single-Particle Label-Free Imaging. <i>Advanced Materials</i> , 2016 , 28, 2945-50	24	34
17	Probing Heterogeneity and Bonding at Silica Surfaces through Single-Molecule Investigation of Base-Mediated Linkage Failure. <i>Langmuir</i> , 2016 , 32, 9171-9	4	10
16	Fluorescent Dendrimeric Molecular Catalysts Demonstrate Unusual Scaling Behavior at the Single-Molecule Level. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19703-19714	3.8	11
15	Photothermal Microscopy of Nonluminescent Single Particles Enabled by Optical Microresonators. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1917-23	6.4	32
14	Photothermal mapping and free-space laser tuning of toroidal optical microcavities. <i>Applied Physics Letters</i> , 2013 , 103, 211116	3.4	17
13	Probing single biomolecules in solution using the anti-Brownian electrokinetic (ABEL) trap. <i>Accounts of Chemical Research</i> , 2012 , 45, 1955-64	24.3	69
12	Redox cycling and kinetic analysis of single molecules of solution-phase nitrite reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17269-74	11.5	46
11	Watching conformational- and photo-dynamics of single fluorescent proteins in solution. <i>Nature Chemistry</i> , 2010 , 2, 179-86	17.6	105
10	Quantum interference in acyclic systems: conductance of cross-conjugated molecules. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17301-8	16.4	196
9	Unexpectedly similar charge transfer rates through benzo-annulated bicyclo[2.2.2]octanes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7659-69	16.4	51
8	Quantum Interference: The Structural Dependence of Electron Transmission through Model Systems and Cross-Conjugated Molecules. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16991-16998	3.8	54
7	Challenges in distinguishing superexchange and hopping mechanisms of intramolecular charge transfer through fluorene oligomers. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4410-4	2.8	35
6	Ultrafast energy transfer within cyclic self-assembled chlorophyll tetramers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6384-5	16.4	60
5	Scaling laws for charge transfer in multiply bridged donor/acceptor molecules in a dissipative environment. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13066-71	16.4	17

- 4 Electron transfer in multiply bridged donor-acceptor molecules: Dephasing and quantum coherence. *Journal of Physical Chemistry B*, **2006**, 110, 20258-62 3.4 52
- 3 Wire-like charge transport at near constant bridge energy through fluorene oligomers. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3540-5 11.5 158
- 2 Two-Dimensional Palladium Nanosheet Intercalated with Gold Nanoparticles for Plasmon-Enhanced Electrocatalysis. *ACS Catalysis*, 13721-13732 13.1 4
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