

Randall H Goldsmith

List of Publications by Year in descending order

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63
papers

2,485
citations

257429

24
h-index

197805

49
g-index

76
all docs

76
docs citations

76
times ranked

3762
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting chemistry and molecular systems for quantum information science. <i>Nature Reviews Chemistry</i> , 2020, 4, 490-504.	30.2	247
2	Quantum Interference in Acyclic Systems: Conductance of Cross-Conjugated Molecules. <i>Journal of the American Chemical Society</i> , 2008, 130, 17301-17308.	13.7	219
3	Selective Stabilization and Photophysical Properties of Metastable Perovskite Polymorphs of CsPbI ₃ in Thin Films. <i>Chemistry of Materials</i> , 2017, 29, 8385-8394.	6.7	170
4	Wire-like charge transport at near constant bridge energy through fluorene oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3540-3545.	7.1	164
5	Watching conformational- and photodynamics of single fluorescent proteins in solution. <i>Nature Chemistry</i> , 2010, 2, 179-186.	13.6	143
6	Optical microresonators as single-particle absorption spectrometers. <i>Nature Photonics</i> , 2016, 10, 788-795.	31.4	143
7	Probing Single Biomolecules in Solution Using the Anti-Brownian Electrokinetic (ABEL) Trap. <i>Accounts of Chemical Research</i> , 2012, 45, 1955-1964.	15.6	89
8	Single-Molecule Investigation of Initiation Dynamics of an Organometallic Catalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 3876-3883.	13.7	67
9	Optical Microresonators for Sensing and Transduction: A Materials Perspective. <i>Advanced Materials</i> , 2017, 29, 1700037.	21.0	67
10	Ultrafast Energy Transfer within Cyclic Self-Assembled Chlorophyll Tetramers. <i>Journal of the American Chemical Society</i> , 2007, 129, 6384-6385.	13.7	64
11	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.	3.1	63
12	Carrier Decay Properties of Mixed Cation Formamidinium ⁺ Methylammonium Lead Iodide Perovskite [HC(NH ₂) ₂] ⁺ [CH ₃ NH ₃] ⁺ PbI ₃ Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5036-5043.	4.6	61
13	Unexpectedly Similar Charge Transfer Rates through Benzo-Annulated Bicyclo[2.2.2]octanes. <i>Journal of the American Chemical Society</i> , 2008, 130, 7659-7669.	13.7	55
14	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, 17269-17274.	7.1	53
15	Electron Transfer in Multiply Bridged Donor ⁺ Acceptor Molecules: Dephasing and Quantum Coherence. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20258-20262.	2.6	52
16	Sculpting Fano Resonances To Control Photonic ⁺ Plasmonic Hybridization. <i>Nano Letters</i> , 2017, 17, 6927-6934.	9.1	45
17	Photothermal Microscopy of Nonluminescent Single Particles Enabled by Optical Microresonators. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1917-1923.	4.6	43
18	Limiting Optical Diodes Enabled by the Phase Transition of Vanadium Dioxide. <i>ACS Photonics</i> , 2018, 5, 2688-2692.	6.6	43

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19	Observing Single-Molecule Dynamics at Millimolar Concentrations. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2399-2402.	13.8	42
20	Structure and dynamics underlying elementary ligand binding events in human pacemaking channels. <i>ELife</i> , 2016, 5, .	6.0	42
21	Chip-Scale Fabrication of High-Q All-Glass Toroidal Microresonators for Single-Particle Label-Free Imaging. <i>Advanced Materials</i> , 2016, 28, 2945-2950.	21.0	41
22	Challenges in Distinguishing Superexchange and Hopping Mechanisms of Intramolecular Charge Transfer through Fluorene Oligomers. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4410-4414.	2.5	37
23	Top-down machine learning approach for high-throughput single-molecule analysis. <i>ELife</i> , 2020, 9, .	6.0	33
24	Role of Collagen Fiber Morphology on Ovarian Cancer Cell Migration Using Image-Based Models of the Extracellular Matrix. <i>Cancers</i> , 2020, 12, 1390.	3.7	29
25	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.	13.7	29
26	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.	13.8	26
27	Photothermal mapping and free-space laser tuning of toroidal optical microcavities. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	25
28	Toward Real-Time Monitoring and Control of Single Nanoparticle Properties with a Microbubble Resonator Spectrometer. <i>ACS Nano</i> , 2019, 13, 12743-12757.	14.6	24
29	Exploring Electronic Structure and Order in Polymers via Single-Particle Microresonator Spectroscopy. <i>Nano Letters</i> , 2018, 18, 1600-1607.	9.1	23
30	Global Analysis of Perovskite Photophysics Reveals Importance of Geminate Pathways. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1062-1071.	3.1	22
31	Mapping Forbidden Emission to Structure in Self-Assembled Organic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018, 140, 15827-15841.	13.7	21
32	Two-Dimensional Palladium Nanosheet Intercalated with Gold Nanoparticles for Plasmon-Enhanced Electrocatalysis. <i>ACS Catalysis</i> , 2021, 11, 13721-13732.	11.2	21
33	Tracking Lithium Ions via Widefield Fluorescence Microscopy for Battery Diagnostics. <i>ACS Sensors</i> , 2017, 2, 903-908.	7.8	20
34	Elucidating Energy Pathways through Simultaneous Measurement of Absorption and Transmission in a Coupled Plasmonic-Photonic Cavity. <i>Nano Letters</i> , 2020, 20, 50-58.	9.1	20
35	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, 13066-13071.	13.7	18
36	Observing Single-Molecule Dynamics at Millimolar Concentrations. <i>Angewandte Chemie</i> , 2017, 129, 2439-2442.	2.0	18

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37	Optical monitoring of polymerizations in droplets with high temporal dynamic range. <i>Chemical Science</i> , 2020, 11, 2647-2656.	7.4	18
38	cAMP binding to closed pacemaker ion channels is non-cooperative. <i>Nature</i> , 2021, 595, 606-610.	27.8	18
39	Extended Range of Dipole-Dipole Interactions in Periodically Structured Photonic Media. <i>Physical Review Letters</i> , 2019, 123, 173901.	7.8	17
40	Single-particle photothermal imaging via inverted excitation through high-Q all-glass toroidal microresonators. <i>Optics Express</i> , 2018, 26, 25020.	3.4	16
41	Optically Detected Magnetic Resonance for Selective Imaging of Diamond Nanoparticles. <i>Analytical Chemistry</i> , 2018, 90, 769-776.	6.5	14
42	Fluorescent Dendrimeric Molecular Catalysts Demonstrate Unusual Scaling Behavior at the Single-Molecule Level. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19703-19714.	3.1	13
43	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.	2.8	13
44	From Absorption Spectra to Charge Transfer in Nanoaggregates of Oligomers with Machine Learning. <i>ACS Nano</i> , 2020, 14, 6589-6598.	14.6	12
45	Probing Heterogeneity and Bonding at Silica Surfaces through Single-Molecule Investigation of Base-Mediated Linkage Failure. <i>Langmuir</i> , 2016, 32, 9171-9179.	3.5	11
46	Investigation of activity, stability, and degradation mechanism of surface-supported Pd-PEPPSI complexes for Suzuki-Miyaura coupling. <i>Molecular Catalysis</i> , 2017, 429, 10-17.	2.0	11
47	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.	3.1	9
48	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.	8.3	9
49	A molecular computing approach to solving optimization problems via programmable microdroplet arrays. <i>Matter</i> , 2021, 4, 1107-1124.	10.0	7
50	Efficient generation of optical bottle beams. <i>Nanophotonics</i> , 2021, 10, 2893-2901.	6.0	7
51	Optical Spectra of p-Doped PEDOT Nanoaggregates Provide Insight into the Material Disorder. <i>ACS Energy Letters</i> , 2016, 1, 1100-1105.	17.4	5
52	Three-Dimensional Printed Planar Polymer Photonic Topological Insulator Waveguides and Their Robustness to Lattice Defects. <i>ACS Photonics</i> , 2022, 9, 1793-1802.	6.6	5
53	Revealing Conformational Variants of Solution-Phase Intrinsically Disordered Tau Protein at the Single-Molecule Level. <i>Angewandte Chemie</i> , 2017, 129, 15790-15794.	2.0	4
54	Compounding a High-Permittivity Thermoplastic Material and Its Applicability in Manufacturing of Microwave Photonic Crystals. <i>Materials</i> , 2022, 15, 2492.	2.9	4

#	ARTICLE	IF	CITATIONS
55	Phase-sensitive photothermal imaging of ultrahigh-Q polyoxide toroidal microresonators. Applied Physics Letters, 2018, 113, 231105.	3.3	3
56	Strong and long-range radiative interaction between resonant transitions. Physical Review Research, 2022, 4, .	3.6	2
57	Underwater ultrasonic topological waveguides by metal additive manufacturing. Applied Physics Letters, 2022, 120, .	3.3	2
58	Watching conformational- and photodynamics of single fluorescent proteins in solution. , 0, .		1
59	Optical Microresonators: Chip-Scale Fabrication of High-QAll-Glass Toroidal Microresonators for Single-Particle Label-Free Imaging (Adv. Mater. 15/2016). Advanced Materials, 2016, 28, 2944-2944.	21.0	0
60	Single-Molecule Fluorescence Imaging of low Affinity Binding Interactions in Pacemaker ion Channels. Biophysical Journal, 2017, 112, 39a.	0.5	0
61	Drumming up single-molecule beats. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11115-11117.	7.1	0
62	Cleaning procedure for improved photothermal background of toroidal optical microresonators. Proceedings of SPIE, 2016, , .	0.8	0
63	Optical Microresonators as Single-Particle Absorption Spectrometers: Fano Resonances, Attometer Sensitivity, and Working Toward Single-Molecule Spectroscopic Identification. , 2017, , .		0