

Gabriela S Schlau-Cohen

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,190
citations

331670

21
h-index

265206

42
g-index

50
all docs

50
docs citations

50
times ranked

1983
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum coherence and its interplay with protein environments in photosynthetic electronic energy transfer. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7319.	2.8	307
2	Pathways of Energy Flow in LHCII from Two-Dimensional Electronic Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15352-15363.	2.6	175
3	Two-dimensional electronic spectroscopy and photosynthesis: Fundamentals and applications to photosynthetic light-harvesting. <i>Chemical Physics</i> , 2011, 386, 1-22.	1.9	157
4	Elucidation of the timescales and origins of quantum electronic coherence in LHCII. <i>Nature Chemistry</i> , 2012, 4, 389-395.	13.6	156
5	Bioinspiration in light harvesting and catalysis. <i>Nature Reviews Materials</i> , 2020, 5, 828-846.	48.7	136
6	Design principles of photosynthetic light-harvesting. <i>Faraday Discussions</i> , 2012, 155, 27-41.	3.2	117
7	Programmed coherent coupling in a synthetic DNA-based excitonic circuit. <i>Nature Materials</i> , 2018, 17, 159-166.	27.5	106
8	Single-Molecule Identification of Quenched and Unquenched States of LHCII. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 860-867.	4.6	88
9	Single-Molecule Fluorescence Spectroscopy of Photosynthetic Systems. <i>Chemical Reviews</i> , 2017, 117, 860-898.	47.7	87
10	Single-molecule spectroscopy of LHCSR1 protein dynamics identifies two distinct states responsible for multi-timescale photosynthetic photoprotection. <i>Nature Chemistry</i> , 2017, 9, 772-778.	13.6	79
11	Single-molecule spectroscopy reveals photosynthetic LH2 complexes switch between emissive states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10899-10903.	7.1	78
12	Observation of dissipative chlorophyll-to-carotenoid energy transfer in light-harvesting complex II in membrane nanodiscs. <i>Nature Communications</i> , 2020, 11, 1295.	12.8	74
13	Spectroscopic elucidation of uncoupled transition energies in the major photosynthetic light-harvesting complex, LHCII. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13276-13281.	7.1	62
14	Photophysics of J-Aggregate-Mediated Energy Transfer on DNA. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5827-5833.	4.6	56
15	The Electronic Structure of Lutein 2 Is Optimized for Light Harvesting in Plants. <i>CheM</i> , 2019, 5, 575-584.	11.7	50
16	Engineering couplings for exciton transport using synthetic DNA scaffolds. <i>CheM</i> , 2021, 7, 752-773.	11.7	50
17	Ultrabroadband 2D electronic spectroscopy with high-speed, shot-to-shot detection. <i>Optics Express</i> , 2017, 25, 18950.	3.4	39
18	Microsecond and millisecond dynamics in the photosynthetic protein LHCSR1 observed by single-molecule correlation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11247-11252.	7.1	30

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19	Single-molecule spectroscopy of photosynthetic proteins in solution: exploration of structure–function relationships. <i>Chemical Science</i> , 2014, 5, 2933-2939.	7.4	26
20	A biohybrid strategy for enabling photoredox catalysis with low-energy light. <i>CheM</i> , 2022, 8, 174-185.	11.7	26
21	Solar fuels and feedstocks: the quest for renewable black gold. <i>Energy and Environmental Science</i> , 2021, 14, 1402-1419.	30.8	25
22	Identification of distinct pH- and zeaxanthin-dependent quenching in LHCSR3 from <i>Chlamydomonas reinhardtii</i> . <i>ELife</i> , 2021, 10, .	6.0	22
23	Impact of the lipid bilayer on energy transfer kinetics in the photosynthetic protein LH2. <i>Chemical Science</i> , 2018, 9, 3095-3104.	7.4	21
24	Zeaxanthin independence of photophysics in light-harvesting complex II in a membrane environment. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148115.	1.0	19
25	Investigating carotenoid photophysics in photosynthesis with 2D electronic spectroscopy. <i>Trends in Chemistry</i> , 2021, 3, 733-746.	8.5	19
26	Photosynthetic fluorescence, from molecule to planet. <i>Physics Today</i> , 2015, 68, 66-67.	0.3	18
27	Tuning Optical Absorption and Emission Using Strongly Coupled Dimers in Programmable DNA Scaffolds. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1863-1871.	4.6	18
28	Bioinspired Supercharging of Photoredox Catalysis for Applications in Energy and Chemical Manufacturing. <i>Accounts of Chemical Research</i> , 2022, 55, 1423-1434.	15.6	18
29	Protein–Protein Interactions Induce pH-Dependent and Zeaxanthin-Independent Photoprotection in the Plant Light-Harvesting Complex, LHCII. <i>Journal of the American Chemical Society</i> , 2021, 143, 17577-17586.	13.7	17
30	Identification of Nonradiative Decay Pathways in Cy3. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5000-5007.	4.6	16
31	Observation of robust energy transfer in the photosynthetic protein allophycocyanin using single-molecule pump–probe spectroscopy. <i>Nature Chemistry</i> , 2022, 14, 153-159.	13.6	16
32	Membrane-dependent heterogeneity of LHCII characterized using single-molecule spectroscopy. <i>Biophysical Journal</i> , 2021, 120, 3091-3102.	0.5	12
33	Phosphorylation-Dependent Conformations of the Disordered Carboxyl-Terminus Domain in the Epidermal Growth Factor Receptor. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10037-10044.	4.6	11
34	Comparison of the Energy-Transfer Rates in Structural and Spectral Variants of the B800–850 Complex from Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1460-1469.	2.6	11
35	Single-Molecule Fluorescence Detection of the Epidermal Growth Factor Receptor in Membrane Discs. <i>Biochemistry</i> , 2019, 58, 286-294.	2.5	10
36	Ligand-induced transmembrane conformational coupling in monomeric EGFR. <i>Nature Communications</i> , 2022, 13, .	12.8	10

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37	Spectrally-tunable femtosecond single-molecule pump-probe spectroscopy. Optics Express, 2021, 29, 28246.	3.4	8
38	Ultrafast energy transfer between lipid-linked chromophores and plant light-harvesting complex II. Physical Chemistry Chemical Physics, 2021, 23, 19511-19524.	2.8	6
39	Photoprotective conformational dynamics of photosynthetic light-harvesting proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148543.	1.0	5
40	Concerted Differential Changes of Helical Dynamics and Packing upon Ligand Occupancy in a Bacterial Chemoreceptor. ACS Chemical Biology, 2021, 16, 2472-2480.	3.4	3
41	Ultrabroadband two-dimensional electronic spectroscopy reveals energy flow pathways in LHCII across the visible spectrum. EPJ Web of Conferences, 2019, 205, 09034.	0.3	1
42	Observation of conformational dynamics in single light-harvesting proteins from cryptophyte algae. Journal of Chemical Physics, 0, , .	3.0	1
43	Carotenoid-Mediated Light Harvesting in Plants. , 2019, , .		0
44	Mapping out Photoprotective Dissipation in Green Plants Using Ultrabroadband 2D Electronic Spectroscopy. , 2020, , .		0
45	Carotenoid-Mediated Light Harvesting in Plants Uncovered with Ultrabroadband Two-Dimensional Electronic Spectroscopy. , 2020, , .		0