Gabriela S Schlau-Cohen

List of Publications by Year
in descending order

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45	2,190	331670 21	265206 42
papers	citations	h-index	g-index

50	50	50	1983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A biohybrid strategy for enabling photoredox catalysis with low-energy light. CheM, 2022, 8, 174-185.	11.7	26
2	Observation of robust energy transfer in the photosynthetic protein allophycocyanin using single-molecule pumpâ€“probe spectroscopy. Nature Chemistry, 2022, 14, 153-159.	13.6	16
3	Tuning Optical Absorption and Emission Using Strongly Coupled Dimers in Programmable DNA Scaffolds. Journal of Physical Chemistry Letters, 2022, 13, 1863-1871.	4.6	18
4	Photoprotective conformational dynamics of photosynthetic light-harvesting proteins. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148543.	1.0	5
5	Bioinspired Supercharging of Photoredox Catalysis for Applications in Energy and Chemical Manufacturing. Accounts of Chemical Research, 2022, 55, 1423-1434.	15.6	18
6	Ligand-induced transmembrane conformational coupling in monomeric EGFR. Nature Communications, 2022, 13, .	12.8	10
7	Identification of distinct pH- and zeaxanthin-dependent quenching in LHCSR3 from Chlamydomonas reinhardtii. ELife, 2021, 10, .	6.0	22
8	Solar fuels and feedstocks: the quest for renewable black gold. Energy and Environmental Science, 2021, 14, 1402-1419.	30.8	25
9	Ultrafast energy transfer between lipid-linked chromophores and plant light-harvesting complex II. Physical Chemistry Chemical Physics, 2021, 23, 19511-19524.	2.8	6
10	Engineering couplings for exciton transport using synthetic DNA scaffolds. CheM, 2021, 7, 752-773.	11.7	50
11	Spectrally-tunable femtosecond single-molecule pump-probe spectroscopy. Optics Express, 2021, 29, 28246.	3.4	8
12	Membrane-dependent heterogeneity of LHCII characterized using single-molecule spectroscopy. Biophysical Journal, 2021, 120, 3091-3102.	0.5	12
13	Investigating carotenoid photophysics in photosynthesis with 2D electronic spectroscopy. Trends in Chemistry, 2021, 3, 733-746.	8.5	19
14	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
15	Proteinâ€“Protein Interactions Induce pH-Dependent and Zeaxanthin-Independent Photoprotection in the Plant Light-Harvesting Complex, LHCII. Journal of the American Chemical Society, 2021, 143, 17577-17586.	13.7	17
16	Phosphorylation-Dependent Conformations of the Disordered Carboxyl-Terminus Domain in the Epidermal Growth Factor Receptor. Journal of Physical Chemistry Letters, 2020, 11, 10037-10044.	4.6	11
17	Bioinspiration in light harvesting and catalysis. Nature Reviews Materials, 2020, 5, 828-846.	48.7	136
18	Zeaxanthin independence of photophysics in light-harvesting complex II in a membrane environment. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148115.	1.0	19

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19	Identification of Nonradiative Decay Pathways in Cy3. Journal of Physical Chemistry Letters, 2020, 11, 5000-5007.	4.6	16
20	Observation of dissipative chlorophyll-to-carotenoid energy transfer in light-harvesting complex II in membrane nanodiscs. Nature Communications, 2020, 11, 1295.	12.8	74
21	Comparison of the Energy-Transfer Rates in Structural and Spectral Variants of the B800â€“850 Complex from Purple Bacteria. Journal of Physical Chemistry B, 2020, 124, 1460-1469.	2.6	11
22	Mapping out Photoprotective Dissipation in Green Plants Using Ultrabroadband 2D Electronic Spectroscopy. , 2020, , .		0
23	Carotenoid-Mediated Light Harvesting in Plants Uncovered with Ultrabroadband Two-Dimensional Electronic Spectroscopy. , 2020, , .		0
24	The Electronic Structure of Lutein 2 Is Optimized for Light Harvesting in Plants. CheM, 2019, 5, 575-584.	11.7	50
25	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
26	Microsecond and millisecond dynamics in the photosynthetic protein LHCSR1 observed by single-molecule correlation spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11247-11252.	7.1	30
27	Single-Molecule Fluorescence Detection of the Epidermal Growth Factor Receptor in Membrane Discs. Biochemistry, 2019, 58, 286-294.	2.5	10
28	Carotenoid-Mediated Light Harvesting in Plants. , 2019, , .		0
29	Impact of the lipid bilayer on energy transfer kinetics in the photosynthetic protein LH2. Chemical Science, 2018, 9, 3095-3104.	7.4	21
30	Programmed coherent coupling in a synthetic DNA-based excitonic circuit. Nature Materials, 2018, 17, 159-166.	27.5	106
31	Single-Molecule Fluorescence Spectroscopy of Photosynthetic Systems. Chemical Reviews, 2017, 117, 860-898.	47.7	87
32	Single-molecule spectroscopy of LHCSR1 protein dynamics identifies two distinct states responsible for multi-timescale photosynthetic photoprotection. Nature Chemistry, 2017, 9, 772-778.	13.6	79
33	Photophysics of J-Aggregate-Mediated Energy Transfer on DNA. Journal of Physical Chemistry Letters, 2017, 8, 5827-5833.	4.6	56
34	Ultrabroadband 2D electronic spectroscopy with high-speed, shot-to-shot detection. Optics Express, 2017, 25, 18950.	3.4	39
35	Photosynthetic fluorescence, from molecule to planet. Physics Today, 2015, 68, 66-67.	0.3	18
36	Single-Molecule Identification of Quenched and Unquenched States of LHCII. Journal of Physical Chemistry Letters, 2015, 6, 860-867.	4.6	88

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37	Single-molecule spectroscopy of photosynthetic proteins in solution: exploration of structureâ€“function relationships. Chemical Science, 2014, 5, 2933-2939.	7.4	26
38	Single-molecule spectroscopy reveals photosynthetic LH2 complexes switch between emissive states. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10899-10903.	7.1	78
39	Elucidation of the timescales and origins of quantum electronic coherence in LHCII. Nature Chemistry, 2012, 4, 389-395.	13.6	156
40	Design principles of photosynthetic light-harvesting. Faraday Discussions, 2012, 155, 27-41.	3.2	117
41	Two-dimensional electronic spectroscopy and photosynthesis: Fundamentals and applications to photosynthetic light-harvesting. Chemical Physics, 2011, 386, 1-22.	1.9	157
42	Quantum coherence and its interplay with protein environments in photosynthetic electronic energy transfer. Physical Chemistry Chemical Physics, 2010, 12, 7319.	2.8	307
43	Spectroscopic elucidation of uncoupled transition energies in the major photosynthetic light-harvesting complex, LHCII. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13276-13281.	7.1	62
44	Pathways of Energy Flow in LHCII from Two-Dimensional Electronic Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 15352-15363.	2.6	175
45	Observation of conformational dynamics in single light-harvesting proteins from cryptophyte algae. Journal of Chemical Physics, 0, , .	3.0	1