Hikaru Kuramochi

List of Publications by Year
in descending order

40	871	566801 15	476904 29
papers	citations	h-index	g-index

42	42	42	932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Probing the early stages of photoreception in photoactive yellow protein with ultrafast time-domain Raman spectroscopy. Nature Chemistry, 2017, 9, 660-666.	6.6	90
2	Ultrafast Structural Evolution of Photoactive Yellow Protein Chromophore Revealed by Ultraviolet Resonance Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry Letters, 2012, 3, 2025-2029.	2.1	84
3	Excited-State Dynamics of 6-Aza-2-thiothymine and 2-Thiothymine: Highly Efficient Intersystem Crossing and Singlet Oxygen Photosensitization. Journal of Physical Chemistry B, 2010, 114, 8782-8789.	1.2	68
4	Femtosecond time-resolved impulsive stimulated Raman spectroscopy using sub-7-fs pulses: Apparatus and applications. Review of Scientific Instruments, 2016, 87, 043107.	0.6	66
5	Role of Coherent Low-Frequency Motion in Excited-State Proton Transfer of Green Fluorescent Protein Studied by Time-Resolved Impulsive Stimulated Raman Spectroscopy. Journal of the American Chemical Society, 2016, 138, 3942-3945.	6.6	63
6	Demonstration of a Light-Driven SO₄^{2â€“} Transporter and Its Spectroscopic Characteristics. Journal of the American Chemical Society, 2017, 139, 4376-4389.	6.6	56
7	Controlling the S₁ Energy Profile by Tuning Excited-State Aromaticity. Journal of the American Chemical Society, 2020, 142, 14985-14992.	6.6	48
8	Fifth-order time-domain Raman spectroscopy of photoactive yellow protein for visualizing vibrational coupling in its excited state. Science Advances, 2019, 5, eaau4490.	4.7	42
9	Intersystem Crossing to Excited Triplet State of Aza Analogues of Nucleic Acid Bases in Acetonitrile. Journal of Physical Chemistry A, 2009, 113, 12088-12093.	1.1	38
10	Flapping Peryleneimide as a Fluorogenic Dye with High Photostability and Strong Visibleâ€Light Absorption. Angewandte Chemie - International Edition, 2020, 59, 16430-16435.	7.2	35
11	Protein Dynamics Preceding Photoisomerization of the Retinal Chromophore in Bacteriorhodopsin Revealed by Deep-UV Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 5422-5427.	2.1	34
12	Tracking Ultrafast Structural Dynamics by Time-Domain Raman Spectroscopy. Journal of the American Chemical Society, 2021, 143, 9699-9717.	6.6	31
13	Tracking Photoinduced Auâ€“Au Bond Formation through Transient Terahertz Vibrations Observed by Femtosecond Time-Domain Raman Spectroscopy. Journal of the American Chemical Society, 2019, 141, 19296-19303.	6.6	30
14	Ultrafast Dynamics of Heliorhodopsins. Journal of Physical Chemistry B, 2019, 123, 2507-2512.	1.2	24
15	Triplet formation of 6-azauridine and singlet oxygen sensitization with UV light irradiation. Physical Chemistry Chemical Physics, 2010, 12, 5140.	1.3	18
16	Metalâ€“Metal Bond Formations in [Au(CN)₂^{â€“}]_n (n =) Tj ETQq0 0 0 rgBT /Overlo Chemistry Letters, 2018, 9, 7085-7089.	2.1	16
17	Coherent Vibration and Femtosecond Dynamics of the Platinum Complex Oligomers upon Intermolecular Bond Formation in the Excited State. Angewandte Chemie - International Edition, 2020, 59, 23154-23161.	7.2	15
18	Comparative Studies of the Fluorescence Properties of Microbial Rhodopsins: Spontaneous Emission Versus Photointermediate Fluorescence. Journal of Physical Chemistry B, 2020, 124, 7361-7367.	1.2	13

#	Article	IF	Citations
19	A Unified View on Varied Ultrafast Dynamics of the Primary Process in Microbial Rhodopsins. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12
20	Broadband stimulated Raman spectroscopy in the deep ultraviolet region. Chemical Physics Letters, 2017, 683, 543-546.	1.2	11
21	Ultrafast photodissociation dynamics of diphenylcyclopropenone studied by time-resolved impulsive stimulated Raman spectroscopy. Chemical Physics, 2018, 512, 88-92.	0.9	11
22	Time-Domain Observation of Surface-Enhanced Coherent Raman Scattering with 105â€“106 Enhancement. Journal of Physical Chemistry Letters, 2020, 11, 6305-6311.	2.1	10
23	Acidâ€“base equilibrium of the chromophore counterion results in distinct photoisomerization reactivity in the primary event of proteorhodopsin. Physical Chemistry Chemical Physics, 2019, 21, 25728-25734.	1.3	9
24	Femtosecond Polarization Switching in the Crystal of a [CrCo] Dinuclear Complex. Angewandte Chemie - International Edition, 2020, 59, 15865-15869.	7.2	9
25	Coherent Vibration and Femtosecond Dynamics of the Platinum Complex Oligomers upon Intermolecular Bond Formation in the Excited State. Angewandte Chemie, 2020, 132, 23354-23361.	1.6	7
26	Flapping Peryleneimide as a Fluorogenic Dye with High Photostability and Strong Visibleâ€Light Absorption. Angewandte Chemie, 2020, 132, 16572-16577.	1.6	7
27	Excited-State Proton Transfer Dynamics in LSSmOrange Studied by Time-Resolved Impulsive Stimulated Raman Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 7466-7473.	2.1	6
28	Femtosecond Polarization Switching in the Crystal of a [CrCo] Dinuclear Complex. Angewandte Chemie, 2020, 132, 15999-16003.	1.6	5
29	Skeletal Structure of the Chromophore of Photoactive Yellow Protein in the Excited State Investigated by Ultraviolet Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry B, 2021, 125, 6154-6161.	1.2	5
30	Modeâ€Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. Angewandte Chemie - International Edition, 2021, 60, 16999-17008.	7.2	3
31	Time-Resolved Impulsive Raman Study of Excited State Structures of Green Fluorescent Protein. Springer Proceedings in Physics, 2015, , 539-542.	0.1	2
32	Ultraviolet-resonance femtosecond stimulated Raman study of the initial events in photoreceptor chromophore. EPJ Web of Conferences, 2013, 41, 08002.	0.1	1
33	A Unified View on Varied Ultrafast Dynamics of the Primary Process in Microbial Rhodopsins. Angewandte Chemie, 0, , .	1.6	1
34	InnenrÃ¼cktitelbild: Coherent Vibration and Femtosecond Dynamics of the Platinum Complex Oligomers upon Intermolecular Bond Formation in the Excited State (Angew. Chem. 51/2020). Angewandte Chemie, 2020, 132, 23547-23547.	1.6	0
35	Femtosecond Structural Dynamics of Complex Molecular Systems Studied by Time-Domain Raman Spectroscopy Using Few-Cycle Pulses. Molecular Science, 2021, 15, A0117.	0.2	0
36	Modeâ€Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. Angewandte Chemie, 2021, 133, 17136-17145.	1.6	0

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37	Frontispiz: Modeâ€Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. Angewandte Chemie, 2021, 133, .	1.6	0
38	Frontispiece: Modeâ€Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
39	Time-Resolved Impulsive Raman Study of Excited State Structures of Green Fluorescent Protein. , 2014, , .		0
40	Femtosecond Time-Resolved Raman Study of Photoresponsive Proteins. Seibutsu Butsuri, 2019, 59, 026-029.	0.0	0