

# Hikaru Kuramochi

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

871  
citations

567281  
15  
h-index

477307  
29  
g-index

42  
all docs

42  
docs citations

42  
times ranked

932  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the early stages of photoreception in photoactive yellow protein with ultrafast time-domain Raman spectroscopy. <i>Nature Chemistry</i> , 2017, 9, 660-666.	13.6	90
2	Ultrafast Structural Evolution of Photoactive Yellow Protein Chromophore Revealed by Ultraviolet Resonance Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2025-2029.	4.6	84
3	Excited-State Dynamics of 6-Aza-2-thiothymine and 2-Thiothymine: Highly Efficient Intersystem Crossing and Singlet Oxygen Photosensitization. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8782-8789.	2.6	68
4	Femtosecond time-resolved impulsive stimulated Raman spectroscopy using sub-7-fs pulses: Apparatus and applications. <i>Review of Scientific Instruments</i> , 2016, 87, 043107.	1.3	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. <i>Journal of the American Chemical Society</i> , 2016, 138, 3942-3945.	13.7	63
6	Demonstration of a Light-Driven SO <sub>4</sub> <sup>2-</sup> Transporter and Its Spectroscopic Characteristics. <i>Journal of the American Chemical Society</i> , 2017, 139, 4376-4389.	13.7	56
7	Controlling the S <sub>1</sub> Energy Profile by Tuning Excited-State Aromaticity. <i>Journal of the American Chemical Society</i> , 2020, 142, 14985-14992.	13.7	48
8	Fifth-order time-domain Raman spectroscopy of photoactive yellow protein for visualizing vibrational coupling in its excited state. <i>Science Advances</i> , 2019, 5, eaau4490.	10.3	42
9	Intersystem Crossing to Excited Triplet State of Aza Analogues of Nucleic Acid Bases in Acetonitrile. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12088-12093.	2.5	38
10	Flapping Peryleneimide as a Fluorogenic Dye with High Photostability and Strong Visible-Light Absorption. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16430-16435.	13.8	35
11	Protein Dynamics Preceding Photoisomerization of the Retinal Chromophore in Bacteriorhodopsin Revealed by Deep-UV Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5422-5427.	4.6	34
12	Tracking Ultrafast Structural Dynamics by Time-Domain Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 9699-9717.	13.7	31
13	Tracking Photoinduced Au-Au Bond Formation through Transient Terahertz Vibrations Observed by Femtosecond Time-Domain Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 19296-19303.	13.7	30
14	Ultrafast Dynamics of Heliorhodopsins. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2507-2512.	2.6	24
15	Triplet formation of 6-azauridine and singlet oxygen sensitization with UV light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5140.	2.8	18
16	Metal-Metal Bond Formations in [Au(CN) <sub>2</sub> ] <sup>+</sup> (n = 1, 2) (n = 1, 2) Tj ETQq0 0 0 rgBT /Overlo <i>Chemistry Letters</i> , 2018, 9, 7085-7089.	4.6	16
17	Coherent Vibration and Femtosecond Dynamics of the Platinum Complex Oligomers upon Intermolecular Bond Formation in the Excited State. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23154-23161.	13.8	15
18	Comparative Studies of the Fluorescence Properties of Microbial Rhodopsins: Spontaneous Emission Versus Photointermediate Fluorescence. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7361-7367.	2.6	13

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19	A Unified View on Varied Ultrafast Dynamics of the Primary Process in Microbial Rhodopsins. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	12
20	Broadband stimulated Raman spectroscopy in the deep ultraviolet region. <i>Chemical Physics Letters</i> , 2017, 683, 543-546.	2.6	11
21	Ultrafast photodissociation dynamics of diphenylcyclopropenone studied by time-resolved impulsive stimulated Raman spectroscopy. <i>Chemical Physics</i> , 2018, 512, 88-92.	1.9	11
22	Time-Domain Observation of Surface-Enhanced Coherent Raman Scattering with 105-106 Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6305-6311.	4.6	10
23	Acid-base equilibrium of the chromophore counterion results in distinct photoisomerization reactivity in the primary event of proteorhodopsin. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25728-25734.	2.8	9
24	Femtosecond Polarization Switching in the Crystal of a [CrCo] Dinuclear Complex. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15865-15869.	13.8	9
25	Coherent Vibration and Femtosecond Dynamics of the Platinum Complex Oligomers upon Intermolecular Bond Formation in the Excited State. <i>Angewandte Chemie</i> , 2020, 132, 23354-23361.	2.0	7
26	Flapping Peryleneimide as a Fluorogenic Dye with High Photostability and Strong Visible-Light Absorption. <i>Angewandte Chemie</i> , 2020, 132, 16572-16577.	2.0	7
27	Excited-State Proton Transfer Dynamics in LSSmOrange Studied by Time-Resolved Impulsive Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7466-7473.	4.6	6
28	Femtosecond Polarization Switching in the Crystal of a [CrCo] Dinuclear Complex. <i>Angewandte Chemie</i> , 2020, 132, 15999-16003.	2.0	5
29	Skeletal Structure of the Chromophore of Photoactive Yellow Protein in the Excited State Investigated by Ultraviolet Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6154-6161.	2.6	5
30	Mode-Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16999-17008.	13.8	3
31	Time-Resolved Impulsive Raman Study of Excited State Structures of Green Fluorescent Protein. <i>Springer Proceedings in Physics</i> , 2015, , 539-542.	0.2	2
32	Ultraviolet-resonance femtosecond stimulated Raman study of the initial events in photoreceptor chromophore. <i>EPJ Web of Conferences</i> , 2013, 41, 08002.	0.3	1
33	A Unified View on Varied Ultrafast Dynamics of the Primary Process in Microbial Rhodopsins. <i>Angewandte Chemie</i> , 0, , .	2.0	1
34	Innenr��cktitelbild: Coherent Vibration and Femtosecond Dynamics of the Platinum Complex Oligomers upon Intermolecular Bond Formation in the Excited State ( <i>Angew. Chem.</i> 51/2020). <i>Angewandte Chemie</i> , 2020, 132, 23547-23547.	2.0	0
35	Femtosecond Structural Dynamics of Complex Molecular Systems Studied by Time-Domain Raman Spectroscopy Using Few-Cycle Pulses. <i>Molecular Science</i> , 2021, 15, A0117.	0.2	0
36	Mode-Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. <i>Angewandte Chemie</i> , 2021, 133, 17136-17145.	2.0	0

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37	Frontispiz: Mode-Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. Angewandte Chemie, 2021, 133, .	2.0	0
38	Frontispiece: Mode-Specific Vibrational Analysis of Exciton Delocalization and Structural Dynamics in Conjugated Oligomers. Angewandte Chemie - International Edition, 2021, 60, .	13.8	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.	0.1	0