

Chong Fang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85 papers	2,554 citations	25 h-index	48 g-index
94 ext. papers	3,160 ext. citations	6.1 avg, IF	5.37 L-index

#	Paper	IF	Citations
85	Mapping GFP structure evolution during proton transfer with femtosecond Raman spectroscopy. <i>Nature</i> , 2009 , 462, 200-4	50.4	358
84	A ZnCl water-in-salt electrolyte for a reversible Zn metal anode. <i>Chemical Communications</i> , 2018 , 54, 14097-14099	5.8	275
83	Two-Dimensional Infrared Spectroscopy of Isotopomers of an Alanine Rich α -Helix <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10415-10427	3.4	130
82	Two-dimensional infrared spectra reveal relaxation of the nonnucleoside inhibitor TMC278 complexed with HIV-1 reverse transcriptase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1472-7	11.5	120
81	Two-dimensional infrared measurements of the coupling between amide modes of an α -helix. <i>Chemical Physics Letters</i> , 2003 , 382, 586-592	2.5	90
80	Amide vibrations are delocalized across the hydrophobic interface of a transmembrane helix dimer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 16740-5	11.5	85
79	Two-dimensional infrared spectra of the $^{13}\text{C}=^{18}\text{O}$ isotopomers of alanine residues in an α -helix. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18652-63	3.4	84
78	Ultrafast conformational dynamics of pyranine during excited state proton transfer in aqueous solution revealed by femtosecond stimulated Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10535-50	3.4	75
77	Panoramic portrait of primary molecular events preceding excited state proton transfer in water. <i>Chemical Science</i> , 2016 , 7, 5484-5494	9.4	69
76	Excited-state proton transfer of photoexcited pyranine in water observed by femtosecond stimulated Raman spectroscopy. <i>Chemical Physics</i> , 2013 , 422, 204-219	2.3	58
75	Probing structural evolution along multidimensional reaction coordinates with femtosecond stimulated Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 405-14	3.6	57
74	Electrolytic synthesis of aqueous aluminum nanoclusters and in situ characterization by femtosecond Raman spectroscopy and computations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18397-401	11.5	54
73	A versatile femtosecond stimulated Raman spectroscopy setup with tunable pulses in the visible to near infrared. <i>Applied Physics Letters</i> , 2014 , 105, 041106	3.4	54
72	Excited-state structural dynamics of a dual-emission calmodulin-green fluorescent protein sensor for calcium ion imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10191-6	11.5	53
71	Capturing Structural Snapshots during Photochemical Reactions with Ultrafast Raman Spectroscopy: From Materials Transformation to Biosensor Responses. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3253-3263	6.4	49
70	A Dual Plating Battery with the Iodine/[Zn(OH)] Cathode. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15910-15915	16.4	46
69	Early time excited-state structural evolution of pyranine in methanol revealed by femtosecond stimulated Raman spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 6024-42	2.8	42

68	Tracking Ultrafast Vibrational Cooling during Excited-State Proton Transfer Reaction with Anti-Stokes and Stokes Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 997-1003	6.4	36
67	Dynamic Raman Line Shapes on an Evolving Excited-State Landscape: Insights from Tunable Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 5428-5441	2.8	36
66	Unveiling Structural Motions of a Highly Fluorescent Superphotoacid by Locking and Fluorinating the GFP Chromophore in Solution. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5921-5928	6.4	34
65	Unraveling ultrafast photoinduced proton transfer dynamics in a fluorescent protein biosensor for Ca(2+) imaging. <i>Chemistry - A European Journal</i> , 2015 , 21, 6481-90	4.8	30
64	Fluorinated co-solvent promises Li-S batteries under lean-electrolyte conditions. <i>Materials Today</i> , 2020 , 40, 63-71	21.8	30
63	Designing redder and brighter fluorophores by synergistic tuning of ground and excited states. <i>Chemical Communications</i> , 2019 , 55, 2537-2540	5.8	27
62	Delayed vibrational modulation of the solvated GFP chromophore into a conical intersection. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9728-9739	3.6	26
61	The electrolyte comprising more robust water and superhalides transforms Zn-metal anode reversibly and dendrite-free 2021 , 3, 339-348		26
60	Ultrafast Structural Evolution and Chromophore Inhomogeneity inside a Green-Fluorescent-Protein-Based Ca(2+) Biosensor. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1225-30	6.4	25
59	Excited State Structural Evolution of a GFP Single-Site Mutant Tracked by Tunable Femtosecond-Stimulated Raman Spectroscopy. <i>Molecules</i> , 2018 , 23,	4.8	24
58	Cascaded four-wave mixing for broadband tunable laser sideband generation. <i>Optics Letters</i> , 2013 , 38, 1772-4	3	23
57	Photoinduced Proton Transfer of GFP-Inspired Fluorescent Superphotoacids: Principles and Design. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3804-3821	3.4	22
56	Excited state structural events of a dual-emission fluorescent protein biosensor for Ca ²⁺ imaging studied by femtosecond stimulated Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 2204-18	3.4	22
55	Initial hydrogen-bonding dynamics of photoexcited coumarin in solution with femtosecond stimulated Raman spectroscopy. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2954-2963	7.1	22
54	Unveiling coupled electronic and vibrational motions of chromophores in condensed phases. <i>Journal of Chemical Physics</i> , 2019 , 151, 200901	3.9	22
53	Devising Efficient Red-Shifting Strategies for Bioimaging: A Generalizable Donor-Acceptor Fluorophore Prototype. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 1514-1523	4.5	19
52	Tunable sideband laser from cascaded four-wave mixing in thin glass for ultra-broadband femtosecond stimulated Raman spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 061110	3.4	18
51	Observation of sum-frequency-generation-induced cascaded four-wave mixing using two crossing femtosecond laser pulses in a 0.1 mm beta-barium-borate crystal. <i>Optics Letters</i> , 2012 , 37, 3783-5	3	18

50	Nitration of Tyrosine Channels Photoenergy through a Conical Intersection in Water. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4915-4928	3.4	17
49	Mapping Structural Dynamics of Proteins with Femtosecond Stimulated Raman Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2020 , 71, 239-265	15.7	17
48	Photoinduced proton transfer inside an engineered green fluorescent protein: a stepwise-concerted-hybrid reaction. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12517-12526	3.6	17
47	Experimental Research of the Effects of Superfine Aluminum Powders on the Combustion Characteristics of NEPE Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2002 , 27, 34-38	1.7	17
46	Monitoring Photochemical Reaction Pathways of Tungsten Hexacarbonyl in Solution from Femtoseconds to Minutes. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 13161-13168	3.4	17
45	Uncovering the Hidden Excited State toward Fluorescence of an Intracellular pH Indicator. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4969-4975	6.4	16
44	Femtosecond stimulated Raman line shapes: Dependence on resonance conditions of pump and probe pulses \square <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 492-502	0.9	16
43	Correlated Molecular Structural Motions for Photoprotection after Deep-UV Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2311-2319	6.4	15
42	A Dual Plating Battery with the Iodine/[ZnI _x (OH) ₂] ₄] ₂ Cathode. <i>Angewandte Chemie</i> , 2019 , 131, 16057-16062	15	15
41	Sum-Frequency-Generation-Based Laser Sidebands for Tunable Femtosecond Raman Spectroscopy in the Ultraviolet. <i>Applied Sciences (Switzerland)</i> , 2015 , 5, 48-61	2.6	15
40	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19924-19928	16.4	15
39	A Non-aqueous H ₃ PO ₄ Electrolyte Enables Stable Cycling of Proton Electrodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22007-22011	16.4	13
38	Illuminating Photochemistry of an Excitation Ratiometric Fluorescent Protein Calcium Biosensor. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3016-3023	3.4	12
37	Ultrafast intermolecular proton transfer to a proton scavenger in an organic solvent. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26151-26160	3.6	12
36	Tuning calcium biosensors with a single-site mutation: structural dynamics insights from femtosecond Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7138-7146	3.6	11
35	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1644-1652	16.4	11
34	Discovering a rotational barrier within a charge-transfer state of a photoexcited chromophore in solution. <i>Structural Dynamics</i> , 2020 , 7, 024901	3.2	10
33	Ultrafast excited-state proton transfer dynamics in dihalogenated non-fluorescent and fluorescent GFP chromophores. <i>Journal of Chemical Physics</i> , 2020 , 152, 021101	3.9	10

32	Fungi-derived xylindein: effect of purity on optical and electronic properties. <i>MRS Advances</i> , 2019 , 4, 1769-1777	0.7	10
31	In-situ weak-beam and polarization control of multidimensional laser sidebands for ultrafast optical switching. <i>Applied Physics Letters</i> , 2014 , 104, 111114	3.4	9
30	Distinct broadband third-harmonic generation on a thin amorphous medium-air interface. <i>Optics Letters</i> , 2013 , 38, 3304-7	3	8
29	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 20096-20100	3.6	8
28	Watching an Engineered Calcium Biosensor Glow: Altered Reaction Pathways before Emission. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 11986-11995	3.4	8
27	Time-Resolved Changes in Dielectric Constant of Metal Halide Perovskites under Illumination. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19799-19803	16.4	7
26	A Non-aqueous H ₃ PO ₄ Electrolyte Enables Stable Cycling of Proton Electrodes. <i>Angewandte Chemie</i> , 2020 , 132, 22191-22195	3.6	7
25	Ultrafast Dynamics and Photoresponse of a Fungi-Derived Pigment Xylindein from Solution to Thin Films. <i>Chemistry - A European Journal</i> , 2021 , 27, 5627-5631	4.8	7
24	Simultaneous solution-based generation and characterization of crystalline bismuth thin film by femtosecond laser spectroscopy. <i>Applied Physics Letters</i> , 2015 , 107, 061901	3.4	6
23	Developing Bright Green Fluorescent Protein (GFP)-like Fluorogens for Live-Cell Imaging with Nonpolar Protein-Chromophore Interactions. <i>Chemistry - A European Journal</i> , 2021 , 27, 8946-8950	4.8	6
22	Photoinduced Charge Transfer and Bimetallic Bond Dissociation of a Bi-W Complex in Solution. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7575-7582	6.4	5
21	Role of Hydroxyl Groups in the Photophysics, Photostability, and (Opto)electronic Properties of the Fungi-Derived Pigment Xylindein. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6534-6545	3.8	5
20	Photoinduced charge flow inside an iron porphyrine complex. <i>Chemical Communications</i> , 2019 , 55, 13606-13609	5.8	5
19	Elucidating low-frequency vibrational dynamics in calcite and water with time-resolved third-harmonic generation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17034-40	3.6	4
18	Shedding light on ultrafast ring-twisting pathways of halogenated GFP chromophores from the excited to ground state. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14636-14648	3.6	4
17	Switching between Ultrafast Pathways Enables a Green-Red Emission Ratiometric Fluorescent-Protein-Based Ca Biosensor. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
16	Ultrafast Triplet State Formation in a Methylated Fungi-Derived Pigment: Toward Rational Molecular Design for Sustainable Optoelectronics. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17565-17572	3.8	4
15	Synergistic interaction between AP and HMX. <i>Journal of Energetic Materials</i> , 2002 , 20, 329-344	1.6	3

14	Transient electronic and vibrational signatures during reversible photoswitching of a cyanobacteriochrome photoreceptor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 250, 119379	4.4	3
13	An Engineered Biliverdin-Compatible Cyanobacteriochrome Enables a Unique Ultrafast Reversible Photoswitching Pathway. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
12	A Novel Dialkylamino GFP Chromophore as an Environment-Polarity Sensor Reveals the Role of Twisted Intramolecular Charge Transfer. <i>Chemosensors</i> , 2021 , 9, 234	4	3
11	Excitation ratiometric chloride sensing in a standalone yellow fluorescent protein is powered by the interplay between proton transfer and conformational reorganization. <i>Chemical Science</i> , 2021 , 12, 11382-11393	9.4	3
10	In-situ characterization of femtosecond laser-induced crystallization in borosilicate glass using time-resolved surface third-harmonic generation. <i>Applied Physics Letters</i> , 2013 , 103, 201116	3.4	2
9	Dissecting Optical Response and Molecular Structure of Fluorescent Proteins With Non-canonical Chromophores. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 131	5.6	2
8	Elucidating Inner Workings of Naturally Sourced Organic Optoelectronic Materials with Ultrafast Spectroscopy. <i>Chemistry - A European Journal</i> , 2021 ,	4.8	2
7	A Graphite PTCDI Aqueous Dual-Ion Battery.. <i>ChemSusChem</i> , 2022 , e202102394	8.3	1
6	Illuminating Excited-State Intramolecular Proton Transfer of a Fungi-Derived Red Pigment for Sustainable Functional Materials. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 459-477	3.8	1
5	Femtosecond Stimulated Raman Spectroscopy (FSRS) Investigation of Excited-State Hydrogen-Bonding Dynamics and Photoacidity in Solution 2019 , 323-367		1
4	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. <i>Angewandte Chemie</i> , 2020 , 132, 1661-1669	3.6	1
3	[LiCl ₂] Superhalide: A New Charge Carrier for Graphite Cathode of Dual-Ion Batteries. <i>Advanced Functional Materials</i> , 2112709	15.6	0
2	Elucidating Excited-State Hydrogen-Bonding Dynamics and Proton Transfer inside Fluorescent Protein Calcium Biosensors 2019 , 55-91		
1	IR Absorption (Time-Resolved Infrared Spectroscopy, Raman): Tracking Vibrational Signatures of the Metal-Containing Species. <i>Springer Handbooks</i> , 2022 , 145-169	1.3	