Chong Fang

List of Publications by Year in Descending Order

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	A Graphite||PTCDI Aqueous Dual-Ion Battery.. *ChemSusChem*, **2022**, e202102394	8.3	1
84	Illuminating Excited-State Intramolecular Proton Transfer of a Fungi-Derived Red Pigment for Sustainable Functional Materials. *Journal of Physical Chemistry C*, **2022**, 126, 459-477	3.8	1
83	IR Absorption (Time-Resolved Infrared Spectroscopy, Raman): Tracking Vibrational Signatures of the Metal-Containing Species. *Springer Handbooks*, **2022**, 145-169	1.3	
82	Ultrafast Dynamics and Photoresponse of a Fungi-Derived Pigment Xylindein from Solution to Thin Films. *Chemistry - A European Journal*, **2021**, 27, 5627-5631	4.8	7
81	Role of Hydroxyl Groups in the Photophysics, Photostability, and (Opto)electronic Properties of the Fungi-Derived Pigment Xylindein. *Journal of Physical Chemistry C*, **2021**, 125, 6534-6545	3.8	5
80	Transient electronic and vibrational signatures during reversible photoswitching of a cyanobacteriochrome photoreceptor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 250, 119379	4.4	3
79	An Engineered Biliverdin-Compatible Cyanobacteriochrome Enables a Unique Ultrafast Reversible Photoswitching Pathway. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
78	Developing Bright Green Fluorescent Protein (GFP)-like Fluorogens for Live-Cell Imaging with Nonpolar Protein-Chromophore Interactions. *Chemistry - A European Journal*, **2021**, 27, 8946-8950	4.8	6
77	The electrolyte comprising more robust water and superhalides transforms Zn-metal anode reversibly and dendrite-free **2021**, 3, 339-348		26
76	Shedding light on ultrafast ring-twisting pathways of halogenated GFP chromophores from the excited to ground state. *Physical Chemistry Chemical Physics*, **2021**, 23, 14636-14648	3.6	4
75	Switching between Ultrafast Pathways Enables a Green-Red Emission Ratiometric Fluorescent-Protein-Based Ca Biosensor. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
74	Ultrafast Triplet State Formation in a Methylated Fungi-Derived Pigment: Toward Rational Molecular Design for Sustainable Optoelectronics. *Journal of Physical Chemistry C*, **2021**, 125, 17565-17572	3.8	4
73	A Novel Dialkylamino GFP Chromophore as an Environment-Polarity Sensor Reveals the Role of Twisted Intramolecular Charge Transfer. *Chemosensors*, **2021**, 9, 234	4	3
72	Elucidating Inner Workings of Naturally Sourced Organic Optoelectronic Materials with Ultrafast Spectroscopy. *Chemistry - A European Journal*, **2021**,	4.8	2
71	Excitation ratiometric chloride sensing in a standalone yellow fluorescent protein is powered by the interplay between proton transfer and conformational reorganization. *Chemical Science*, **2021**, 12, 11382-11393	9.4	3
70	Discovering a rotational barrier within a charge-transfer state of a photoexcited chromophore in solution. *Structural Dynamics*, **2020**, 7, 024901	3.2	10
69	Devising Efficient Red-Shifting Strategies for Bioimaging: A Generalizable Donor-Acceptor Fluorophore Prototype. *Chemistry - an Asian Journal*, **2020**, 15, 1514-1523	4.5	19

68	Mapping Structural Dynamics of Proteins with Femtosecond Stimulated Raman Spectroscopy. *Annual Review of Physical Chemistry*, **2020**, 71, 239-265	15.7	17
67	Ultrafast excited-state proton transfer dynamics in dihalogenated non-fluorescent and fluorescent GFP chromophores. *Journal of Chemical Physics*, **2020**, 152, 021101	3.9	10
66	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. *Angewandte Chemie*, **2020**, 132, 1661-1669	3.6	1
65	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. *Angewandte Chemie - International Edition*, **2020**, 59, 1644-1652	16.4	11
64	Fluorinated co-solvent promises Li-S batteries under lean-electrolyte conditions. *Materials Today*, **2020**, 40, 63-71	21.8	30
63	Time-Resolved Changes in Dielectric Constant of Metal Halide Perovskites under Illumination. *Journal of the American Chemical Society*, **2020**, 142, 19799-19803	16.4	7
62	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 19924-19928	16.4	15
61	Dissecting Optical Response and Molecular Structure of Fluorescent Proteins With Non-canonical Chromophores. *Frontiers in Molecular Biosciences*, **2020**, 7, 131	5.6	2
60	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 20096-20100	3.6	8
59	A Non-aqueous H PO Electrolyte Enables Stable Cycling of Proton Electrodes. *Angewandte Chemie - International Edition*, **2020**, 59, 22007-22011	16.4	13
58	A Non-aqueous H3PO4 Electrolyte Enables Stable Cycling of Proton Electrodes. *Angewandte Chemie*, **2020**, 132, 22191-22195	3.6	7
57	Photoinduced Charge Transfer and Bimetallic Bond Dissociation of a Bi-W Complex in Solution. *Journal of Physical Chemistry Letters*, **2020**, 11, 7575-7582	6.4	5
56	Designing redder and brighter fluorophores by synergistic tuning of ground and excited states. *Chemical Communications*, **2019**, 55, 2537-2540	5.8	27
55	Nitration of Tyrosine Channels Photoenergy through a Conical Intersection in Water. *Journal of Physical Chemistry B*, **2019**, 123, 4915-4928	3.4	17
54	Delayed vibrational modulation of the solvated GFP chromophore into a conical intersection. *Physical Chemistry Chemical Physics*, **2019**, 21, 9728-9739	3.6	26
53	Photoinduced Proton Transfer of GFP-Inspired Fluorescent Superphotoacids: Principles and Design. *Journal of Physical Chemistry B*, **2019**, 123, 3804-3821	3.4	22
52	A Dual Plating Battery with the Iodine/[ZnI (OH)] Cathode. *Angewandte Chemie - International Edition*, **2019**, 58, 15910-15915	16.4	46
51	A Dual Plating Battery with the Iodine/[ZnIx(OH2)4⊠]2⊠ Cathode. *Angewandte Chemie*, **2019**, 131, 16057-16062	3.6	15

50	Femtosecond Stimulated Raman Spectroscopy (FSRS) Investigation of Excited-State Hydrogen-Bonding Dynamics and Photoacidity in Solution **2019**, 323-367		1
49	Elucidating Excited-State Hydrogen-Bonding Dynamics and Proton Transfer inside Fluorescent Protein Calcium Biosensors **2019**, 55-91		
48	Fungi-derived xylindein: effect of purity on optical and electronic properties. *MRS Advances*, **2019**, 4, 1769-1777	0.7	10
47	Photoinduced charge flow inside an iron porphyrazine complex. *Chemical Communications*, **2019**, 55, 13606-13609	5.8	5
46	Unveiling coupled electronic and vibrational motions of chromophores in condensed phases. *Journal of Chemical Physics*, **2019**, 151, 200901	3.9	22
45	Correlated Molecular Structural Motions for Photoprotection after Deep-UV Irradiation. *Journal of Physical Chemistry Letters*, **2018**, 9, 2311-2319	6.4	15
44	Photoinduced proton transfer inside an engineered green fluorescent protein: a stepwise-concerted-hybrid reaction. *Physical Chemistry Chemical Physics*, **2018**, 20, 12517-12526	3.6	17
43	Uncovering the Hidden Excited State toward Fluorescence of an Intracellular pH Indicator. *Journal of Physical Chemistry Letters*, **2018**, 9, 4969-4975	6.4	16
42	A ZnCl water-in-salt electrolyte for a reversible Zn metal anode. *Chemical Communications*, **2018**, 54, 14097-14099	5.8	275
41	Femtosecond stimulated Raman line shapes: Dependence on resonance conditions of pump and probe pulses *Chinese Journal of Chemical Physics*, **2018**, 31, 492-502	0.9	16
40	Excited State Structural Evolution of a GFP Single-Site Mutant Tracked by Tunable Femtosecond-Stimulated Raman Spectroscopy. *Molecules*, **2018**, 23,	4.8	24
39	Watching an Engineered Calcium Biosensor Glow: Altered Reaction Pathways before Emission. *Journal of Physical Chemistry B*, **2018**, 122, 11986-11995	3.4	8
38	Capturing Structural Snapshots during Photochemical Reactions with Ultrafast Raman Spectroscopy: From Materials Transformation to Biosensor Responses. *Journal of Physical Chemistry Letters*, **2018**, 9, 3253-3263	6.4	49
37	Tuning calcium biosensors with a single-site mutation: structural dynamics insights from femtosecond Raman spectroscopy. *Physical Chemistry Chemical Physics*, **2017**, 19, 7138-7146	3.6	11
36	Tracking Ultrafast Vibrational Cooling during Excited-State Proton Transfer Reaction with Anti-Stokes and Stokes Femtosecond Stimulated Raman Spectroscopy. *Journal of Physical Chemistry Letters*, **2017**, 8, 997-1003	6.4	36
35	Illuminating Photochemistry of an Excitation Ratiometric Fluorescent Protein Calcium Biosensor. *Journal of Physical Chemistry B*, **2017**, 121, 3016-3023	3.4	12
34	Unveiling Structural Motions of a Highly Fluorescent Superphotoacid by Locking and Fluorinating the GFP Chromophore in Solution. *Journal of Physical Chemistry Letters*, **2017**, 8, 5921-5928	6.4	34
33	Dynamic Raman Line Shapes on an Evolving Excited-State Landscape: Insights from Tunable Femtosecond Stimulated Raman Spectroscopy. *Journal of Physical Chemistry A*, **2017**, 121, 5428-5441	2.8	36

32	Ultrafast intermolecular proton transfer to a proton scavenger in an organic solvent. *Physical Chemistry Chemical Physics*, **2016**, 18, 26151-26160	3.6	12
31	Initial hydrogen-bonding dynamics of photoexcited coumarin in solution with femtosecond stimulated Raman spectroscopy. *Journal of Materials Chemistry C*, **2016**, 4, 2954-2963	7.1	22
30	Ultrafast Structural Evolution and Chromophore Inhomogeneity inside a Green-Fluorescent-Protein-Based Ca(2+) Biosensor. *Journal of Physical Chemistry Letters*, **2016**, 7, 1225-30	6.4	25
29	Monitoring Photochemical Reaction Pathways of Tungsten Hexacarbonyl in Solution from Femtoseconds to Minutes. *Journal of Physical Chemistry B*, **2016**, 120, 13161-13168	3.4	17
28	Panoramic portrait of primary molecular events preceding excited state proton transfer in water. *Chemical Science*, **2016**, 7, 5484-5494	9.4	69
27	Simultaneous solution-based generation and characterization of crystalline bismuth thin film by femtosecond laser spectroscopy. *Applied Physics Letters*, **2015**, 107, 061901	3.4	6
26	Excited state structural events of a dual-emission fluorescent protein biosensor for Ca2+ imaging studied by femtosecond stimulated Raman spectroscopy. *Journal of Physical Chemistry B*, **2015**, 119, 2204-18	3.4	22
25	Sum-Frequency-Generation-Based Laser Sidebands for Tunable Femtosecond Raman Spectroscopy in the Ultraviolet. *Applied Sciences (Switzerland)*, **2015**, 5, 48-61	2.6	15
24	Unraveling ultrafast photoinduced proton transfer dynamics in a fluorescent protein biosensor for Ca(2+) imaging. *Chemistry - A European Journal*, **2015**, 21, 6481-90	4.8	30
23	Elucidating low-frequency vibrational dynamics in calcite and water with time-resolved third-harmonic generation spectroscopy. *Physical Chemistry Chemical Physics*, **2015**, 17, 17034-40	3.6	4
22	Excited-state structural dynamics of a dual-emission calmodulin-green fluorescent protein sensor for calcium ion imaging. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10191-6	11.5	53
21	In-situ weak-beam and polarization control of multidimensional laser sidebands for ultrafast optical switching. *Applied Physics Letters*, **2014**, 104, 111114	3.4	9
20	A versatile femtosecond stimulated Raman spectroscopy setup with tunable pulses in the visible to near infrared. *Applied Physics Letters*, **2014**, 105, 041106	3.4	54
19	Excited-state proton transfer of photoexcited pyranine in water observed by femtosecond stimulated Raman spectroscopy. *Chemical Physics*, **2013**, 422, 204-219	2.3	58
18	In-situ characterization of femtosecond laser-induced crystallization in borosilicate glass using time-resolved surface third-harmonic generation. *Applied Physics Letters*, **2013**, 103, 201116	3.4	2
17	Electrolytic synthesis of aqueous aluminum nanoclusters and in situ characterization by femtosecond Raman spectroscopy and computations. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 18397-401	11.5	54
16	Early time excited-state structural evolution of pyranine in methanol revealed by femtosecond stimulated Raman spectroscopy. *Journal of Physical Chemistry A*, **2013**, 117, 6024-42	2.8	42
15	Distinct broadband third-harmonic generation on a thin amorphous medium-air interface. *Optics Letters*, **2013**, 38, 3304-7	3	8

14	Cascaded four-wave mixing for broadband tunable laser sideband generation. *Optics Letters*, **2013**, 38, 1772-4	3	23
13	Tunable sideband laser from cascaded four-wave mixing in thin glass for ultra-broadband femtosecond stimulated Raman spectroscopy. *Applied Physics Letters*, **2013**, 103, 061110	3.4	18
12	Probing structural evolution along multidimensional reaction coordinates with femtosecond stimulated Raman spectroscopy. *Physical Chemistry Chemical Physics*, **2012**, 14, 405-14	3.6	57
11	Ultrafast conformational dynamics of pyranine during excited state proton transfer in aqueous solution revealed by femtosecond stimulated Raman spectroscopy. *Journal of Physical Chemistry B*, **2012**, 116, 10535-50	3.4	75
10	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. *Optics Letters*, **2012**, 37, 3783-5	3	18
9	Mapping GFP structure evolution during proton transfer with femtosecond Raman spectroscopy. *Nature*, **2009**, 462, 200-4	50.4	358
8	Two-dimensional infrared spectra reveal relaxation of the nonnucleoside inhibitor TMC278 complexed with HIV-1 reverse transcriptase. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 1472-7	11.5	120
7	Amide vibrations are delocalized across the hydrophobic interface of a transmembrane helix dimer. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 16740-5	11.5	85
6	Two-dimensional infrared spectra of the 13C=18O isotopomers of alanine residues in an alpha-helix. *Journal of Physical Chemistry B*, **2005**, 109, 18652-63	3.4	84
5	Two-Dimensional Infrared Spectroscopy of Isotopomers of an Alanine Rich □Helix□ *Journal of Physical Chemistry B*, **2004**, 108, 10415-10427	3.4	130
4	Two-dimensional infrared measurements of the coupling between amide modes of an □helix. *Chemical Physics Letters*, **2003**, 382, 586-592	2.5	90
3	Experimental Research of the Effects of Superfine Aluminum Powders on the Combustion Characteristics of NEPE Propellants. *Propellants, Explosives, Pyrotechnics*, **2002**, 27, 34-38	1.7	17
2	Synergistic interaction between AP and HMX. *Journal of Energetic Materials*, **2002**, 20, 329-344	1.6	3
1	[LiCl 2] □Superhalide: A New Charge Carrier for Graphite Cathode of Dual-Ion Batteries. *Advanced Functional Materials*,2112709	15.6	0