

# Eric Freysz

## List of Publications by Year in descending order

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100  
papers

3,365  
citations

257450

24  
h-index

149698

56  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational Direct Synthesis of RbMnFe Nanoparticles ( $RbMnFe = Rb_xMn[Fe(CN)_6]_{2+x}/3 \cdot nH_2O$ Prussian) Tj ETQq1 1.0.784314 rgBT / 0v	4.0	14
2	Ultrafast, broadband and tunable terahertz reflector and neutral density filter based on high resistivity silicon. Optics Express, 2022, 30, 18995.	3.4	5
3	Electro-optic comb pumped optical parametric oscillator with flexible repetition rate at GHz level. Optics Letters, 2021, 46, 1652.	3.3	2
4	Sub-bandgap activated charges transfer in a graphene-MoS <sub>2</sub> -graphene heterostructure. Nano Select, 2021, 2, 2019-2028.	3.7	15
5	Optical damage limit of efficient spintronic THz emitters. IScience, 2021, 24, 103152.	4.1	19
6	Enhancement in optically induced ultrafast THz response of MoSe <sub>2</sub> /MoS <sub>2</sub> heterobilayer. Optics Express, 2021, 29, 4181.	3.4	10
7	Time-Resolved Study of the Photoswitching of Gold Nanorods Coated with a Spin-Crossover Compound Shell. Journal of Physical Chemistry C, 2021, 125, 22611-22621.	3.1	3
8	Photo-Thermal Switching of Individual Plasmonically Activated Spin Crossover Nanoparticle Imaged by Ultrafast Transmission Electron Microscopy. Advanced Materials, 2021, 33, e2105586.	21.0	15
9	The Interplay between Surface Plasmon Resonance and Switching Properties in Gold@Spin Crossover Nanocomposites. Advanced Functional Materials, 2020, 30, 2000447.	14.9	22
10	Conical versus Gaussian terahertz emission from two-color laser-induced air plasma filaments. Optics Letters, 2020, 45, 2132.	3.3	12
11	Influence of photo-excited charge carriers in silicon wafer in a two-color laser-induced air plasma terahertz emission. , 2020, , .		0
12	Study of the Photoswitching of a Fe(II) Chiral Complex through Linear and Nonlinear Ultrafast Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 5975-5982.	4.6	6
13	Terahertz vortex beam generation by infrared vector beam rectification. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 12.	2.1	17
14	Tunable and chirp free femtosecond signal pulses generated by a PPLN OPO pumped by Ytterbium fiber laser chirped pulses. , 2019, , .		0
15	Impact of Spin State Transition on Vibrations of [Fe(II)(PMoBiA) <sub>2</sub> (NCS) <sub>2</sub> ] and [Fe(II)(PMoPEA) <sub>2</sub> (NCS) <sub>2</sub> ] Spin Crossover Compounds: Experimental and Theoretical Far IR and Raman Study. European Journal of Inorganic Chemistry, 2018, 2018, 385-393.	2.0	2
16	Second-Harmonic and Terahertz Generation in a Prussian-Blue Analogue. European Journal of Inorganic Chemistry, 2018, 2018, 378-384.	2.0	3
17	Design and Study of Structural Linear and Nonlinear Optical Properties of Chiral [Fe(phen) <sub>3</sub> ] <sup>2+</sup> Complexes. Inorganic Chemistry, 2018, 57, 14501-14512.	4.0	19
18	Photostability of biological systems—Femtosecond dynamics of zinc tetrasulfonated phthalocyanine at cancerous and noncancerous human Breast tissues. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 10-24.	3.9	12

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19	Direct Wavefront Measurement of Terahertz Pulses Using Two-Dimensional Electro-Optic Imaging. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 741-746.	3.1	9
20	Large optical third-order nonlinearities in a switchable Prussian blue analogue. Optical Materials Express, 2017, 7, 444.	3.0	5
21	Geometric phase shaping of terahertz vortex beams. Optics Letters, 2017, 42, 41.	3.3	35
22	Self-compression of the signal wave in a PPLN OPO pumped by chirped pulses. , 2017, , .		0
23	Compact nanosecond laser system for the ignition of aeronautic combustion engines. Journal of Applied Physics, 2016, 120, 233102.	2.5	2
24	Development of a wavefront sensor for terahertz pulses. Optics Express, 2016, 24, 5203.	3.4	21
25	Simple and distortion-free optical sampling of terahertz pulses via heterodyne detection schemes. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2045.	2.1	8
26	Frequency resolved cross-correlation between optical and terahertz pulses: application to ultrashort laser pulse characterization. Optics Express, 2016, 24, 3003.	3.4	8
27	Impact of the spin state switching on the dielectric constant of iron (II) spin crossover nanoparticles. Chemical Physics Letters, 2015, 641, 14-19.	2.6	11
28	Terahertz wavefront assessment based on 2D electro-optic imaging. Proceedings of SPIE, 2015, , .	0.8	1
29	Study of nanosecond polarization maintaining Ytterbium-doped fiber amplifier in pulsed pump regime. , 2015, , .		0
30	Tuning photoinduced terahertz conductivity in monolayer graphene: Optical-pump terahertz-probe spectroscopy. Physical Review B, 2014, 90, .	3.2	49
31	Terahertz-field-induced second harmonic generation through Pockels effect in zinc telluride crystal. Optics Letters, 2014, 39, 5921.	3.3	14
32	Time resolved terahertz spectroscopy of low frequency electronic resonances and optical pump-induced terahertz photoconductivity in reduced graphene oxide membrane. Carbon, 2014, 80, 762-770.	10.3	19
33	Photoswitching of the spin crossover polymeric material [Fe(Htrz) <sub>2</sub> (trz)](BF <sub>4</sub> ) under continuous laser irradiation in a Raman scattering experiment. Chemical Physics Letters, 2014, 604, 105-109.	2.6	34
34	Single-shot time resolved study of the photo-reversible phase transition induced in flakes of Ti <sub>3</sub> O <sub>5</sub> nanoparticles at room temperature. Chemical Physics Letters, 2014, 608, 106-112.	2.6	27
35	Transient absorption spectroscopy of the [Fe(2-CH <sub>3</sub> -phen) <sub>3</sub> ] <sup>2+</sup> complex: Study of the high spin <sup>+</sup> →low spin relaxation of an isolated iron(II) complex. Chemical Physics Letters, 2013, 556, 82-88.	2.6	11
36	Ultrafast Dynamics of Metal Complexes of Tetrasulfonated Phthalocyanines at Biological Interfaces: Comparison between Photochemistry in Solutions, Films, and Noncancerous and Cancerous Human Breast Tissues. Journal of Physical Chemistry C, 2013, 117, 4999-5013.	3.1	25

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37	Picosecond to femtosecond pulses from high power self mode-locked ytterbium rod-type fiber laser. Optics Express, 2013, 21, 10731.	3.4	20
38	Group index determination by pulse delay measurements and dispersion study in the zero dispersion region of fused silica. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2797.	2.1	0
39	Time resolved measurements of gratings photo-induced by femtosecond pulses in a lead doped glass. Optical Materials Express, 2012, 2, 1751.	3.0	1
40	Ultrafast Dynamics of Metal Complexes of Tetrasulphonated Phthalocyanines. Journal of Physical Chemistry A, 2012, 116, 4000-4009.	2.5	21
41	Unraveling the mechanism of NO ligand photoisomerism by time-resolved infrared spectroscopy. Chemical Physics Letters, 2012, 552, 64-68.	2.6	16
42	8 watts actively mode-locked Ytterbium doped fiber laser delivering 15 ps pulses at 40 MHz. , 2011, , .		1
43	Ten watts actively mode-locked ytterbium doped fiber laser delivering 15 ps at 40 MHz. Proceedings of SPIE, 2011, , .	0.8	0
44	Transient absorption spectroscopy of the iron(II) [Fe(phen)3]2+ complex: Study of the non-radiative relaxation of an isolated iron(II) complex. Chemical Physics Letters, 2011, 513, 42-47.	2.6	40
45	Impact of dispersion, free carriers, and two-photon absorption on the generation of intense terahertz pulses in ZnTe crystals. Applied Physics Letters, 2011, 98, .	3.3	30
46	Terahertz Time Domain Spectroscopy to Detect Low-Frequency Vibrations of Double-Walled Carbon Nanotubes. European Journal of Inorganic Chemistry, 2010, 2010, 4363-4366.	2.0	9
47	Nanosecond study of spin state transition induced by a single nanosecond laser shot on [Fe(NH2trz)3] compounds inside and outside their thermal hysteresis loops. Chemical Physics Letters, 2010, 500, 18-22.	2.6	35
48	Terahertz Kerr effect. Nature Photonics, 2010, 4, 131-132.	31.4	24
49	Influence of two photon absorption induced free carriers on coherent polariton and phonon generation in ZnTe crystals. Journal of Applied Physics, 2010, 107, .	2.5	9
50	Mechanism for optical switching of the spin crossover [Fe(NH2-trz)3](Br)2·3H2O compound at room temperature. Physical Chemistry Chemical Physics, 2010, 12, 3044.	2.8	57
51	Terahertz Spectroscopy of Single-Walled Carbon Nanotubes in a Polymer Film: Observation of Low-Frequency Phonons. Journal of Physical Chemistry C, 2010, 114, 12446-12450.	3.1	24
52	Nanoparticles of [Fe(NH <sub>2</sub> trz) <sub>3</sub> ] <sub>2</sub> ·3H <sub>2</sub> O (NH <sub>2</sub> trz=2-Amino-1,2,4-triazole) Prepared by the Reverse Micelle Technique: Influence of Particle and Coherent Domain Sizes on Spin-Crossover Properties. Chemistry - A European Journal, 2009, 15, 6122-6130.	3.3	156
53	Laser induced spin state transition: Spectral and temporal evolution. Chemical Physics Letters, 2009, 469, 274-278.	2.6	14
54	Observation of an asymmetry in the thermal hysteresis loop at the scale of a single spin-crossover particle. Chemical Physics Letters, 2009, 470, 131-135.	2.6	20

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55	Tuning and focusing THz pulses by shaping the pump laser beam profile in a nonlinear crystal. Optics Express, 2009, 17, 592.	3.4	16
56	Nuclear and electronic contributions to the third-order nonlinearity in different glasses. Optics Communications, 2008, 281, 769-775.	2.1	9
57	Effect of the metal dilution on the thermal and light-induced spin transition in [Fe <sub>x</sub> Mn <sub>1-x</sub> (bpy) <sub>2</sub> ](NCS) <sub>2</sub> : When T(LIESST) reaches T <sub>1</sub> /2. Inorganica Chimica Acta, 2008, 361, 3529-3533.	2.4	41
58	Nanoparticles of iron(ii) spin-crossover. Chemical Communications, 2008, , 4327.	4.1	172
59	Harmonics generation from rod-type Yb doped fiber laser. , 2008, , .		0
60	Tandem fiber laser: injected laser versus double pass amplifier. , 2008, , .		0
61	One-dimensional tunable photonic crystals with spin crossover material for the terahertz range. Applied Physics Letters, 2006, 89, 174105.	3.3	19
62	Complete temperature study of the relaxation from the high-spin state to low-spin state in a strongly cooperative spin crossover compound. Chemical Physics Letters, 2005, 415, 206-210.	2.6	28
63	Dielectric characterization of [Fe(NH <sub>2</sub> trz) <sub>3</sub> ]Br·2H <sub>2</sub> O thermal spin crossover compound by terahertz time domain spectroscopy. Applied Physics Letters, 2005, 87, 244103.	3.3	18
64	Self-influence of a femtosecond laser beam upon ablation of Ag in liquids. Applied Physics A: Materials Science and Processing, 2004, 78, 307-309.	2.3	65
65	Characterization of non-linear Potassium crystals in the Terahertz frequency domain. Optics Communications, 2004, 242, 631-639.	2.1	23
66	Single laser pulse induces spin state transition within the hysteresis loop of an Iron compound. Chemical Physics Letters, 2004, 394, 318-323.	2.6	116
67	Optical parametric chirped pulse amplification and spectral shaping of a continuum generated in a photonic band gap fiber. Optics Express, 2004, 12, 2397.	3.4	11
68	Direct measurement of wave-front distortion induced during second-harmonic generation: application to breakup-integral compensation. Optics Letters, 2004, 29, 899.	3.3	8
69	Infrared second harmonic generation spectroscopy of Ge(111) interfaces. Journal of Chemical Physics, 2003, 119, 3958-3962.	3.0	8
70	Nonlinear optical properties of polychlorotriphenylmethyl radicals: towards the design of 'super-octupolar' molecules. Chemical Physics Letters, 2002, 363, 245-251.	2.6	30
71	Spectral characterization of second harmonic $\chi^{(2)}$ cascading phenomena. Optics Express, 2001, 9, 172.	3.4	3
72	Measurement of the third-order susceptibility of glasses by EFISH of femtosecond pulses. Optics Express, 2001, 9, 586.	3.4	15

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73	Spatial control of second-order optical susceptibility induced in thermally poled glasses. Applied Physics Letters, 2001, 78, 3018-3020.	3.3	0
74	Second-order non-linear optical response of metallo-organic compounds: towards switchable materials. Chemical Physics Letters, 2000, 324, 321-329.	2.6	50
75	Measurement of non-instantaneous contribution to the $\chi^{(3)}$ in different liquids using femtosecond chirped pulses. Optics Communications, 2000, 176, 459-472.	2.1	8
76	Thermally poled fused silica as a second-order autocorrelation crystal. Applied Physics B: Lasers and Optics, 2000, 70, S95-S98.	2.2	1
77	KTiOPO <sub>4</sub> , KTiOAsO <sub>4</sub> , and KNbO <sub>3</sub> crystals for mid-infrared femtosecond optical parametric amplifiers: analysis and comparison. Applied Physics B: Lasers and Optics, 2000, 70, S247-S252.	2.2	45
78	Design of new fluorinated bridged push-pull stilbenes and preparation of LB films for second harmonic generation in the blue domain. New Journal of Chemistry, 2000, 24, 977-985.	2.8	8
79	Automatic time delay optimization between the pump and seed pulses of a broadly tunable femtosecond optical parametric amplifier. Applied Optics, 1998, 37, 2411.	2.1	2
80	Second-Harmonic Generation of Electrically Poled Borophosphate Glasses: Effects of Introducing Niobium or Sodium Oxides. Journal of Solid State Chemistry, 1997, 133, 529-535.	2.9	37
81	Study of fluorinated sulfonyl stilbenes in Langmuir-Blodgett films for an efficient harmonic generation in the blue domain. Chemical Physics Letters, 1995, 242, 604-616.	2.6	10
82	Phase separation and droplet nucleation induced by an optical piston. Physical Review E, 1994, 49, 4145-4148.	2.1	16
83	Vibrational spectra of water molecules at quartz/water interfaces. Physical Review Letters, 1994, 72, 238-241.	7.8	503
84	Phase conjugation in critical microemulsions. Physical Review E, 1994, 49, 2141-2149.	2.1	20
85	Vibrational spectroscopy of water at the vapor/water interface. Physical Review Letters, 1993, 70, 2313-2316.	7.8	926
86	Reorientation dynamics of ferroelectric liquid-crystal molecules near the smectic-A-smectic-C* transition. Physical Review E, 1993, 47, R2269-R2272.	2.1	16
87	Laser-Induced Structural Changes in Microemulsions. Europhysics Letters, 1992, 17, 27-32.	2.0	2
88	Optical-diffraction measurement of fractal dimensions and $f(\hat{\pm})$ spectrum. Physical Review A, 1992, 45, 8961-8964.	2.5	6
89	Phase conjugation used as a test of the local and nonlocal characteristics of optical nonlinearities in microemulsions. Optics Letters, 1991, 16, 1644.	3.3	7
90	Optical wavelet transform and local scaling properties of fractals. Journal of Applied Crystallography, 1991, 24, 526-530.	4.5	6

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91	Self focusing induced by Soret effect. Optics Communications, 1990, 78, 436-442.	2.1	4
92	Optical wavelet transform of fractal aggregates. Physical Review Letters, 1990, 64, 745-748.	7.8	85
93	Interpretation of the Anomalous Critical Behaviour in a Quaternary Microemulsion. Europhysics Letters, 1989, 9, 833-838.	2.0	13
94	Nonlinear propagation of Gaussian beams in binary critical liquid mixtures. Physical Review A, 1989, 39, 5268-5279.	2.5	25
95	Thermodiffusive and Electrostrictive Optical Nonlinearities in Critical Microemulsions. Europhysics Letters, 1988, 7, 219-224.	2.0	24
96	High resolution doppler free spectroscopy of mercury lines in the UV domain. Optics Communications, 1987, 61, 26-32.	2.1	3
97	Dynamic gratings induced by electrostrictive compression of critical microemulsions. IEEE Journal of Quantum Electronics, 1986, 22, 1258-1261.	1.9	16
98	Injection locking of CW ring dye lasers. IEEE Journal of Quantum Electronics, 1984, 20, 310-318.	1.9	13
99	Experimental study of the injection-locked continuous-wave ring dye laser. Optics Letters, 1984, 9, 435.	3.3	17
100	New lasers and laser schemes. Applied Physics B: Lasers and Optics, 1982, 29, 143-148.	2.2	1