Eric Freysz

List of Publications by Year in descending order

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100 3,365 papers citations	56 g-index
100 100 all docs citations	3276 citing authors
100 100 all docs citations	

#	Article	IF	CITATIONS
1	Vibrational spectroscopy of water at the vapor/water interface. Physical Review Letters, 1993, 70, 2313-2316.	2.9	926
2	Vibrational spectra of water molecules at quartz/water interfaces. Physical Review Letters, 1994, 72, 238-241.	2.9	503
3	Nanoparticles of iron(ii) spin-crossover. Chemical Communications, 2008, , 4327.	2.2	172
4	Nanoparticles of [Fe(NH ₂ â€trz) ₃]Br ₂ â<3 H ₂ O (NH ₂ â€trz=2â€Aminoâ€1,2,4â€triazole) Prepared by the Reverse Micelle Technique: Influence of Particle and Coherent Domain Sizes on Spinâ€Crossover Properties. Chemistry - A European Journal, 2009, 15, 6122-6130.	1.7	156
5	Single laser pulse induces spin state transition within the hysteresis loop of an Iron compound. Chemical Physics Letters, 2004, 394, 318-323.	1.2	116
6	Optical wavelet transform of fractal aggregates. Physical Review Letters, 1990, 64, 745-748.	2.9	85
7	Self-influence of a femtosecond laser beam upon ablation of Ag in liquids. Applied Physics A: Materials Science and Processing, 2004, 78, 307-309.	1.1	65
8	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.	1.3	57
9	Second-order non-linear optical response of metallo-organic compounds: towards switchable materials. Chemical Physics Letters, 2000, 324, 321-329.	1.2	50
10	Tuning photoinduced terahertz conductivity in monolayer graphene: Optical-pump terahertz-probe spectroscopy. Physical Review B, 2014, 90, .	1.1	49
11	KTiOPO4, KTiOAsO4, and KNbO3 crystals for mid-infrared femtosecond optical parametric amplifiers: analysis and comparison. Applied Physics B: Lasers and Optics, 2000, 70, S247-S252.	1.1	45
12	Effect of the metal dilution on the thermal and light-induced spin transition in [FexMn1â^'x(bpp)2](NCSe)2: When T(LIESST) reaches T1/2. Inorganica Chimica Acta, 2008, 361, 3529-3533.	1.2	41
13	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.	1.2	40
14	Second-Harmonic Generation of Electrically Poled Borophosphate Glasses: Effects of Introducing Niobium or Sodium Oxides. Journal of Solid State Chemistry, 1997, 133, 529-535.	1.4	37
15	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.	1.2	35
16	Geometric phase shaping of terahertz vortex beams. Optics Letters, 2017, 42, 41.	1.7	35
17	Photoswitching of the spin crossover polymeric material [Fe(Htrz)2(trz)](BF4) under continuous laser irradiation in a Raman scattering experiment. Chemical Physics Letters, 2014, 604, 105-109.	1.2	34
18	Nonlinear optical properties of polychlorotriphenylmethyl radicals: towards the design of `super-octupolar' molecules. Chemical Physics Letters, 2002, 363, 245-251.	1.2	30

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19	Impact of dispersion, free carriers, and two-photon absorption on the generation of intense terahertz pulses in ZnTe crystals. Applied Physics Letters, 2011, 98, .	1.5	30
20	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.	1.2	28
21	Single-shot time resolved study of the photo-reversible phase transition induced in flakes of Ti3O5 nanoparticles at room temperature. Chemical Physics Letters, 2014, 608, 106-112.	1.2	27
22	Nonlinear propagation of Gaussian beams in binary critical liquid mixtures. Physical Review A, 1989, 39, 5268-5279.	1.0	25
23	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.	1.5	25
24	Thermodiffusive and Electrostrictive Optical Nonlinearities in Critical Microemulsions. Europhysics Letters, 1988, 7, 219-224.	0.7	24
25	Terahertz Kerr effect. Nature Photonics, 2010, 4, 131-132.	15.6	24
26	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.	1.5	24
27	Characterization of non-linear Potassium crystals in the Terahertz frequency domain. Optics Communications, 2004, 242, 631-639.	1.0	23
28	The Interplay between Surface Plasmon Resonance and Switching Properties in Gold@Spin Crossover Nanocomposites. Advanced Functional Materials, 2020, 30, 2000447.	7.8	22
29	Ultrafast Dynamics of Metal Complexes of Tetrasulphonated Phthalocyanines. Journal of Physical Chemistry A, 2012, 116, 4000-4009.	1.1	21
30	Development of a wavefront sensor for terahertz pulses. Optics Express, 2016, 24, 5203.	1.7	21
31	Phase conjugation in critical microemulsions. Physical Review E, 1994, 49, 2141-2149.	0.8	20
32	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.	1.2	20
33	Picosecond to femtosecond pulses from high power self mode–locked ytterbium rod-type fiber laser. Optics Express, 2013, 21, 10731.	1.7	20
34	One-dimensional tunable photonic crystals with spin crossover material for the terahertz range. Applied Physics Letters, 2006, 89, 174105.	1.5	19
35	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.	5.4	19
36	Design and Study of Structural Linear and Nonlinear Optical Properties of Chiral [Fe(phen)3]2+ Complexes. Inorganic Chemistry, 2018, 57, 14501-14512.	1.9	19

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37	Optical damage limit of efficient spintronic THz emitters. IScience, 2021, 24, 103152.	1.9	19
38	Dielectric characterization of [Fe(NH2â^'trz)3]Br2•H2O thermal spin crossover compound by terahertz time domain spectroscopy. Applied Physics Letters, 2005, 87, 244103.	1.5	18
39	Experimental study of the injection-locked continous-wave ring dye laser. Optics Letters, 1984, 9, 435.	1.7	17
40	Terahertz vortex beam generation by infrared vector beam rectification. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 12.	0.9	17
41	Dynamic gratings induced by electrostrictive compression of critical microemulsions. IEEE Journal of Quantum Electronics, 1986, 22, 1258-1261.	1.0	16
42	Reorientation dynamics of ferroelectric liquid-crystal molecules near the smectic-A–smectic-C*transition. Physical Review E, 1993, 47, R2269-R2272.	0.8	16
43	Phase separation and droplet nucleation induced by an optical piston. Physical Review E, 1994, 49, 4145-4148.	0.8	16
44	Tuning and focusing THz pulses by shaping the pump laser beam profile in a nonlinear crystal. Optics Express, 2009, 17, 592.	1.7	16
45	Unraveling the mechanism of NO ligand photoisomerism by time-resolved infrared spectroscopy. Chemical Physics Letters, 2012, 552, 64-68.	1.2	16
46	Measurement of the third-order susceptibility of glasses by EFISH of femtosecond pulses. Optics Express, 2001, 9, 586.	1.7	15
47	Subâ€bandgap activated charges transfer in a grapheneâ€MoS ₂ â€graphene heterostructure. Nano Select, 2021, 2, 2019-2028.	1.9	15
48	Photoâ€Thermal Switching of Individual Plasmonically Activated Spin Crossover Nanoparticle Imaged by Ultrafast Transmission Electron Microscopy. Advanced Materials, 2021, 33, e2105586.	11.1	15
49	Laser induced spin state transition: Spectral and temporal evolution. Chemical Physics Letters, 2009, 469, 274-278.	1.2	14
50	Terahertz-field-induced second harmonic generation through Pockels effect in zinc telluride crystal. Optics Letters, 2014, 39, 5921.	1.7	14
51	Injection locking of CW ring dye lasers. IEEE Journal of Quantum Electronics, 1984, 20, 310-318.	1.0	13
52	Interpretation of the Anomalous Critical Behaviour in a Quaternary Microemulsion. Europhysics Letters, 1989, 9, 833-838.	0.7	13
53	Photostability of biological systemsâ€"Femtosecond dynamics of zinc tetrasulfonated phthalocyanine at cancerous and noncancerous human Breast tissues. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 10-24.	2.0	12
54	Conical versus Gaussian terahertz emission from two-color laser-induced air plasma filaments. Optics Letters, 2020, 45, 2132.	1.7	12

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55	Optical parametric chirped pulse amplification and spectral shaping of a continuum generated in a photonic band gap fiber. Optics Express, 2004, 12, 2397.	1.7	11
56	Transient absorption spectroscopy of the [Fe(2 CH3-phen)3]2+ complex: Study of the high spin↔low spin relaxation of an isolated iron(II) complex. Chemical Physics Letters, 2013, 556, 82-88.	1.2	11
57	Impact of the spin state switching on the dielectric constant of iron (II) spin crossover nanoparticles. Chemical Physics Letters, 2015, 641, 14-19.	1.2	11
58	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.	1.2	10
59	Enhancement in optically induced ultrafast THz response of MoSe2MoS2 heterobilayer. Optics Express, 2021, 29, 4181.	1.7	10
60	Nuclear and electronic contributions to the third-order nonlinearity in different glasses. Optics Communications, 2008, 281, 769-775.	1.0	9
61	Terahertz Time Domain Spectroscopy to Detect Low-Frequency Vibrations of Double-Walled Carbon Nanotubes. European Journal of Inorganic Chemistry, 2010, 2010, 4363-4366.	1.0	9
62	Influence of two photon absorption induced free carriers on coherent polariton and phonon generation in ZnTe crystals. Journal of Applied Physics, 2010, 107, .	1.1	9
63	Direct Wavefront Measurement of Terahertz Pulses Using Two-Dimensional Electro-Optic Imaging. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 741-746.	2.0	9
64	Measurement of non-instantaneous contribution to the \ddot{i} ‡(3) in different liquids using femtosecond chirped pulses. Optics Communications, 2000, 176, 459-472.	1.0	8
65	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.	1.4	8
66	Infrared second harmonic generation spectroscopy of Ge(111) interfaces. Journal of Chemical Physics, 2003, 119, 3958-3962.	1.2	8
67	Direct measurement of wave-front distortion induced during second-harmonic generation: application to breakup-integral compensation. Optics Letters, 2004, 29, 899.	1.7	8
68	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.	0.9	8
69	Frequency resolved cross-correlation between optical and terahertz pulses: application to ultrashort laser pulse characterization. Optics Express, 2016, 24, 3003.	1.7	8
70	Phase conjugation used as a test of the local and nonlocal characteristics of optical nonlinearities in microemulsions. Optics Letters, 1991, 16, 1644.	1.7	7
71	Optical wavelet transform and local scaling properties of fractals. Journal of Applied Crystallography, 1991, 24, 526-530.	1.9	6
72	Optical-diffraction measurement of fractal dimensions and f(\hat{l}_{\pm}) spectrum. Physical Review A, 1992, 45, 8961-8964.	1.0	6

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73	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.	2.1	6
74	Large optical third-order nonlinearities in a switchable Prussian blue analogue. Optical Materials Express, 2017, 7, 444.	1.6	5
75	Ultrafast, broadband and tunable terahertz reflector and neutral density filter based on high resistivity silicon. Optics Express, 2022, 30, 18995.	1.7	5
76	Self focusing induced by Soret effect. Optics Communications, 1990, 78, 436-442.	1.0	4
77	High resolution doppler free spectroscopy of mercury lines in the UV domain. Optics Communications, 1987, 61, 26-32.	1.0	3
78	Spectral characterization of second harmonic ?^(2) cascading phenomena. Optics Express, 2001, 9, 172.	1.7	3
79	Second-Harmonic and Terahertz Generation in a Prussian-Blue Analogue. European Journal of Inorganic Chemistry, 2018, 2018, 378-384.	1.0	3
80	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.	1.5	3
81	Laser-Induced Structural Changes in Microemulsions. Europhysics Letters, 1992, 17, 27-32.	0.7	2
82	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
83	Compact nanosecond laser system for the ignition of aeronautic combustion engines. Journal of Applied Physics, 2016, 120, 233102.	1.1	2
84	Impact of Spin State Transition on Vibrations of [Fe–(PM–BiA) ₂ (NCS) ₂] and [Fe–(PM–PEA) ₂ (NCS) ₂] Spin Crossover Compounds: Experimental and Theoretical Far IR and Raman Study. European Journal of Inorganic Chemistry, 2018, 2018, 385-393.	1.0	2
85	Electro-optic comb pumped optical parametric oscillator with flexible repetition rate at GHz level. Optics Letters, 2021, 46, 1652.	1.7	2
86	New lasers and laser schemes. Applied Physics B: Lasers and Optics, 1982, 29, 143-148.	1.1	1
87	Thermally poled fused silica as a second-order autocorrelation crystal. Applied Physics B: Lasers and Optics, 2000, 70, S95-S98.	1.1	1
88	8 watts actively mode-locked Ytterbium doped fiber laser delivering 15 ps pulses at 40 MHz., 2011,,.		1
89	Time resolved measurements of gratings photo-induced by femtosecond pulses in a lead doped glass. Optical Materials Express, 2012, 2, 1751.	1.6	1
90	Terahertz wavefront assessment based on 2D electro-optic imaging. Proceedings of SPIE, 2015, , .	0.8	1

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91	Rational Direct Synthesis of RbMnFe Nanoparticles (RbMnFe = RbxMn[Fe(CN)6](2+x)/3·nH2O Prussian) Tj ETQq.	1 1.0.7843 1.9	3
92	Spatial control of second-order optical susceptibility induced in thermally poled glasses. Applied Physics Letters, 2001, 78, 3018-3020.	1.5	0
93	Harmonics generation from rod-type Yb doped fiber laser. , 2008, , .		0
94	Ten watts actively mode-locked ytterbium doped fiber laser delivering 15 ps at 40 MHz. Proceedings of SPIE, $2011, \ldots$	0.8	0
95	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.	0.9	0
96	Tandem fiber laser: injected laser versus double pass amplifier. , 2008, , .		0
97	Study of nanosecond polarization maintaining Ytterbium-doped fiber amplifier in pulsed pump regime. , 2015, , .		o
98	Self-compression of the signal wave in a PPLN OPO pumped by chirped pulses. , 2017, , .		0
99	Tunable and chirp free femtosecond signal pulses generated by a PPLN OPO pumped by Ytterbium fiber laser chirped pulses. , 2019, , .		O
100	Influence of photo-excited charge carriers in silicon wafer in a two-color laser-induced air plasma terahertz emission., 2020,,.		0