

Emmanuelle Jal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/142435/publications.pdf>

Version: 2024-02-01

43
papers

705
citations

567281

15
h-index

580821

25
g-index

46
all docs

46
docs citations

46
times ranked

1222
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-shot experiments at the soft X-FEL FERMI using a back-side-illuminated scientific CMOS detector. Journal of Synchrotron Radiation, 2022, 29, 103-110.	2.4	5
2	Investigating Coherent Magnetization Control with Ultrashort THz Pulses. Applied Sciences (Switzerland), 2022, 12, 1323.	2.5	6
3	Element-selective analysis of ultrafast demagnetization in Co/Pt multilayers exhibiting large perpendicular magnetic anisotropy. Applied Physics Letters, 2022, 120, .	3.3	4
4	Ultrafast time-evolution of chiral Néel magnetic domain walls probed by circular dichroism in x-ray resonant magnetic scattering. Nature Communications, 2022, 13, 1412.	12.8	7
5	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. Science Advances, 2022, 8, eabn0523.	10.3	10
6	Ultrafast magnetic scattering on ferrimagnets enabled by a bright Yb-based soft x-ray source. Optica, 2022, 9, 399.	9.3	8
7	Stimulated resonant inelastic X-ray scattering in a solid. Communications Physics, 2022, 5, .	5.3	9
8	Nonlinear harmonics of a seeded free-electron laser as a coherent and ultrafast probe to investigate matter at the water window and beyond. Physical Review A, 2022, 105, .	2.5	7
9	Analytic description and optimization of magneto-optical Kerr setups with photoelastic modulation. Review of Scientific Instruments, 2022, 93, .	1.3	4
10	Toward ultrafast magnetic depth profiling using time-resolved x-ray resonant magnetic reflectivity. Structural Dynamics, 2021, 8, 034305.	2.3	7
11	Raman Red-shift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cut-off. , 2021, , .		0
12	Raman Red-shift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cut-off. Advanced Photonics Research, 2021, 2, 2100113.	3.6	5
13	Sub-15-fs X-ray pump and X-ray probe experiment for the study of ultrafast magnetization dynamics in ferromagnetic alloys. Optics Express, 2021, 29, 32388.	3.4	7
14	Time-Resolved XUV Absorption Spectroscopy and Magnetic Circular Dichroism at the Ni M _{2,3} -Edges. Applied Sciences (Switzerland), 2021, 11, 325.	2.5	17
15	High Harmonic Generation Driven by Raman Multidimensional Solitary States. , 2021, , .		0
16	Simultaneous two-color snapshot view on ultrafast charge and spin dynamics in a Fe-Cu-Ni tri-layer. Structural Dynamics, 2020, 7, 054302.	2.3	10
17	Transient magnetic gratings on the nanometer scale. Structural Dynamics, 2020, 7, 054501.	2.3	16
18	Laser-induced ultrafast demagnetization and perpendicular magnetic anisotropy reduction in a Co ₈₈ Tb ₁₂ thin film with stripe domains. Physical Review B, 2020, 102, .	3.2	21

#	ARTICLE	IF	CITATIONS
19	Element-Specific Magnetization Dynamics of Complex Magnetic Systems Probed by Ultrafast Magneto-Optical Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 7580.	2.5	9
20	Wavelength scaling of ultrafast demagnetization in Co/Pt multilayers. Physical Review B, 2020, 101, .	3.2	19
21	Effects of the Pump Wavelength on Laser-Induced Ultrafast Demagnetization. , 2020, , .		0
22	Resonant Faraday effect using high-order harmonics for the investigation of ultrafast demagnetization. Physical Review B, 2019, 100, .	3.2	9
23	Single-shot time-resolved magnetic x-ray absorption at a free-electron laser. Physical Review B, 2019, 99, .	3.2	12
24	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	12.8	54
25	Beyond a phenomenological description of magnetostriction. Nature Communications, 2018, 9, 388.	12.8	48
26	Commissioning of a multi-beamline femtoslicing facility at SOLEIL. Journal of Synchrotron Radiation, 2018, 25, 385-398.	2.4	7
27	Unraveling Nanoscale Magnetic Ordering in Fe ₃ O ₄ Nanoparticle Assemblies via X-rays. Magnetochemistry, 2018, 4, 42.	2.4	12
28	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. Physical Review Letters, 2018, 121, 137403.	7.8	20
29	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, .	3.2	49
30	Multi-color imaging of magnetic Co/Pt heterostructures. Structural Dynamics, 2017, 4, 014301.	2.3	32
31	Multi-Color Imaging of Magnetic Co/Pt Multilayers. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	4
32	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. Nano Letters, 2017, 17, 2426-2432.	9.1	22
33	Structural dynamics during laser-induced ultrafast demagnetization. Physical Review B, 2017, 95, .	3.2	21
34	Faraday effect using high order harmonics for ultrafast demagnetization applications. , 2017, , .		0
35	Indirect excitation of ultrafast demagnetization. Scientific Reports, 2016, 6, 18970.	3.3	61
36	Femtosecond X-ray magnetic circular dichroism absorption spectroscopy at an X-ray free electron laser. Review of Scientific Instruments, 2016, 87, 033110.	1.3	50

#	ARTICLE	IF	CITATIONS
37	Generation mechanism of terahertz coherent acoustic phonons in Fe. Physical Review B, 2016, 93, .	3.2	48
38	Noncollinearity of the canted spins across ultrathin Fe films on vicinal Ag surfaces. Physical Review B, 2015, 91, .	3.2	6
39	Interface Fe magnetic moment enhancement in MgO/Fe/MgO trilayers. Applied Physics Letters, 2015, 107, 092404.	3.3	14
40	Magnetization profile across Au-covered bcc Fe films grown on a vicinal surface of Ag(001) as seen by x-ray resonant magnetic reflectivity. Physical Review B, 2013, 87, .	3.2	10
41	Inhomogeneous temperature dependence of the magnetization in fcc-Fe on Cu(001). Physical Review B, 2012, 85, .	3.2	7
42	X-ray resonant magnetic reflectivity of stratified magnetic structures: Eigenwave formalism and application to a W/Fe/W trilayer. Journal of Magnetism and Magnetic Materials, 2012, 324, 105-112.	2.3	34
43	Depth-resolved magnetization distribution in ultra thin films by soft X-ray resonant magnetic reflectivity. European Physical Journal: Special Topics, 2012, 208, 177-187.	2.6	11