

# 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	Indirect excitation of ultrafast demagnetization. <i>Scientific Reports</i> , 2016, 6, 18970.	3.3	61
2	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. <i>Nature Communications</i> , 2019, 10, 1756.	12.8	54
3	Femtosecond X-ray magnetic circular dichroism absorption spectroscopy at an X-ray free electron laser. <i>Review of Scientific Instruments</i> , 2016, 87, 033110.	1.3	50
4	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , 2018, 98, .	3.2	49
5	Generation mechanism of terahertz coherent acoustic phonons in Fe. <i>Physical Review B</i> , 2016, 93, .	3.2	48
6	Beyond a phenomenological description of magnetostriction. <i>Nature Communications</i> , 2018, 9, 388.	12.8	48
7	X-ray resonant magnetic reflectivity of stratified magnetic structures: Eigenwave formalism and application to a W/Fe/W trilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 105-112.	2.3	34
8	Multi-color imaging of magnetic Co/Pt heterostructures. <i>Structural Dynamics</i> , 2017, 4, 014301.	2.3	32
9	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. <i>Nano Letters</i> , 2017, 17, 2426-2432.	9.1	22
10	Structural dynamics during laser-induced ultrafast demagnetization. <i>Physical Review B</i> , 2017, 95, .	3.2	21
11	Laser-induced ultrafast demagnetization and perpendicular magnetic anisotropy reduction in a Co <sub>88</sub> Tb <sub>12</sub> thin film with stripe domains. <i>Physical Review B</i> , 2020, 102, .	3.2	21
12	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. <i>Physical Review Letters</i> , 2018, 121, 137403.	7.8	20
13	Wavelength scaling of ultrafast demagnetization in Co/Pt multilayers. <i>Physical Review B</i> , 2020, 101, .	3.2	19
14	Time-Resolved XUV Absorption Spectroscopy and Magnetic Circular Dichroism at the Ni M <sub>2,3</sub> -Edges. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 325.	2.5	17
15	Transient magnetic gratings on the nanometer scale. <i>Structural Dynamics</i> , 2020, 7, 054501.	2.3	16
16	Interface Fe magnetic moment enhancement in MgO/Fe/MgO trilayers. <i>Applied Physics Letters</i> , 2015, 107, 092404.	3.3	14
17	Unraveling Nanoscale Magnetic Ordering in Fe <sub>3</sub> O <sub>4</sub> Nanoparticle Assemblies via X-rays. <i>Magnetochemistry</i> , 2018, 4, 42.	2.4	12
18	Single-shot time-resolved magnetic x-ray absorption at a free-electron laser. <i>Physical Review B</i> , 2019, 99, .	3.2	12

#	ARTICLE	IF	CITATIONS
19	Depth-resolved magnetization distribution in ultra thin films by soft X-ray resonant magnetic reflectivity. <i>European Physical Journal: Special Topics</i> , 2012, 208, 177-187.	2.6	11
20	Magnetization profile across Au-covered bcc Fe films grown on a vicinal surface of Ag(001) as seen by x-ray resonant magnetic reflectivity. <i>Physical Review B</i> , 2013, 87, .	3.2	10
21	Simultaneous two-color snapshot view on ultrafast charge and spin dynamics in a Fe-Cu-Ni tri-layer. <i>Structural Dynamics</i> , 2020, 7, 054302.	2.3	10
22	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. <i>Science Advances</i> , 2022, 8, eabn0523.	10.3	10
23	Resonant Faraday effect using high-order harmonics for the investigation of ultrafast demagnetization. <i>Physical Review B</i> , 2019, 100, .	3.2	9
24	Element-Specific Magnetization Dynamics of Complex Magnetic Systems Probed by Ultrafast Magneto-Optical Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7580.	2.5	9
25	Stimulated resonant inelastic X-ray scattering in a solid. <i>Communications Physics</i> , 2022, 5, .	5.3	9
26	Ultrafast magnetic scattering on ferrimagnets enabled by a bright Yb-based soft x-ray source. <i>Optica</i> , 2022, 9, 399.	9.3	8
27	Inhomogeneous temperature dependence of the magnetization in fcc-Fe on Cu(001). <i>Physical Review B</i> , 2012, 85, .	3.2	7
28	Commissioning of a multi-beamline femtoslicing facility at SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 385-398.	2.4	7
29	Toward ultrafast magnetic depth profiling using time-resolved x-ray resonant magnetic reflectivity. <i>Structural Dynamics</i> , 2021, 8, 034305.	2.3	7
30	Sub-15-fs X-ray pump and X-ray probe experiment for the study of ultrafast magnetization dynamics in ferromagnetic alloys. <i>Optics Express</i> , 2021, 29, 32388.	3.4	7
31	Ultrafast time-evolution of chiral Néel magnetic domain walls probed by circular dichroism in x-ray resonant magnetic scattering. <i>Nature Communications</i> , 2022, 13, 1412.	12.8	7
32	Nonlinear harmonics of a seeded free-electron laser as a coherent and ultrafast probe to investigate matter at the water window and beyond. <i>Physical Review A</i> , 2022, 105, .	2.5	7
33	Noncollinearity of the canted spins across ultrathin Fe films on vicinal Ag surfaces. <i>Physical Review B</i> , 2015, 91, .	3.2	6
34	Investigating Coherent Magnetization Control with Ultrashort THz Pulses. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1323.	2.5	6
35	Raman Redshift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cut-off. <i>Advanced Photonics Research</i> , 2021, 2, 2100113.	3.6	5
36	Single-shot experiments at the soft X-FEL FERMI using a back-side-illuminated scientific CMOS detector. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 103-110.	2.4	5

#	ARTICLE	IF	CITATIONS
37	Multi-Color Imaging of Magnetic Co/Pt Multilayers. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	4
38	Element-selective analysis of ultrafast demagnetization in Co/Pt multilayers exhibiting large perpendicular magnetic anisotropy. Applied Physics Letters, 2022, 120, .	3.3	4
39	Analytic description and optimization of magneto-optical Kerr setups with photoelastic modulation. Review of Scientific Instruments, 2022, 93, .	1.3	4
40	Faraday effect using high order harmonics for ultrafast demagnetization applications. , 2017, , .		0
41	Raman Red-shift Compressor: A Simple Approach for Scaling the High Harmonic Generation Cut-off. , 2021, , .		0
42	Effects of the Pump Wavelength on Laser-Induced Ultrafast Demagnetization. , 2020, , .		0
43	High Harmonic Generation Driven by Raman Multidimensional Solitary States. , 2021, , .		0