

Matteo Savoini

List of Publications by Year in descending order

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304743

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62
all docs

62
docs citations

62
times ranked

2866
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Induced Magnetic Nanostructures with Tunable Topological Properties. Physical Review Letters, 2013, 110, 177205.	7.8	256
2	Role of Magnetic Circular Dichroism in All-Optical Magnetic Recording. Physical Review Letters, 2012, 108, 127205.	7.8	253
3	The ultrafast Einsteinâ€“de Haas effect. Nature, 2019, 565, 209-212.	27.8	151
4	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. Nano Letters, 2015, 15, 6862-6868.	9.1	126
5	Self-Assembled Organic Microfibers for Nonlinear Optics. Advanced Materials, 2013, 25, 2084-2089.	21.0	119
6	Near-field polarization shaping by a near-resonant plasmonic cross antenna. Physical Review B, 2009, 80, .	3.2	91
7	Dependence of the two-photon photoluminescence yield of gold nanostructures on the laser pulse duration. Physical Review B, 2009, 80, .	3.2	87
8	Element-Specific Probing of Ultrafast Spin Dynamics in Multisublattice Magnets with Visible Light. Physical Review Letters, 2013, 110, 107205.	7.8	85
9	Nanoscale sub-100 picosecond all-optical magnetization switching in GdFeCo microstructures. Nature Communications, 2015, 6, 5839.	12.8	74
10	Ultrafast Formation of a Charge Density Wave State in GdFeCo Microstructures: Observation at Nanometer Scales Using Time-Resolved X-Ray Diffraction. Physical Review Letters, 2017, 118, 247401.	12.8	74
11	Experimental Observation of a Photon Bouncing Ball. Physical Review Letters, 2009, 102, 180402.	7.8	44
12	THz Generation and Detection by Fluorenone Based Organic Crystals. ACS Photonics, 2018, 5, 671-677.	6.6	42
13	Highly efficient all-optical switching of magnetization in GdFeCo microstructures by interference-enhanced absorption of light. Physical Review B, 2012, 86, .	3.2	41
14	Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. Advanced Optical Materials, 2015, 3, 948-956.	7.3	39
15	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a $\frac{1}{4}\mu\text{m}$ spatial-resolution. Review of Scientific Instruments, 2014, 85, 063702.	1.3	37
16	Optical excitation of thin magnetic layers in multilayer structures. Nature Materials, 2014, 13, 101-102.	27.5	35
17	Nonequilibrium charge-density-wave order beyond the thermal limit. Nature Communications, 2021, 12, 2499.	12.8	33
18	Efficiency of ultrafast laser-induced demagnetization in GdFeCo microstructures. Physical Review B, 2012	3.2	30

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19	Circular Dichroism Probed by Two-Photon Fluorescence Microscopy in Enantiopure Chiral Polyfluorene Thin Films. <i>Journal of the American Chemical Society</i> , 2012, 134, 5832-5835.	13.7	28
20	2D THz spectroscopic investigation of ballistic conduction-band electron dynamics in InSb. <i>Optics Express</i> , 2019, 27, 10854.	3.4	27
21	Ultrafast all-optical response of a nematic liquid crystal. <i>Optics Express</i> , 2015, 23, 14010.	3.4	25
22	All-optical subdiffraction multilevel data encoding onto azo-polymeric thin films. <i>Optics Letters</i> , 2009, 34, 761.	3.3	22
23	Deterministic character of all-optical magnetization switching in GdFe-based ferrimagnetic alloys. <i>Physical Review B</i> , 2016, 93, .	3.2	22
24	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. <i>Nano Letters</i> , 2017, 17, 2426-2432.	9.1	22
25	Watching ultrafast responses of structure and magnetism in condensed matter with momentum-resolved probes. <i>Structural Dynamics</i> , 2017, 4, 061506.	2.3	21
26	Ultrafast Relaxation Dynamics of the Antiferrodistortive Phase in Ca Doped SrTiO_3 . <i>Physical Review Letters</i> , 2018, 121, 055701.	7.8	20
27	Optical energy optimization at the nanoscale by near-field interference. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	19
28	Near-field circular polarization probed by chiral polyfluorene. <i>Optics Letters</i> , 2009, 34, 3571.	3.3	17
29	The role of magnetization compensation point for efficient ultrafast control of magnetization in Gd ₂₄ Fe _{66.5} Co _{9.5} alloy. <i>European Physical Journal B</i> , 2013, 86, 1.	1.5	17
30	Spontaneous Formation of Left- and Right-Handed Cholesterically Ordered Domains in an Enantiopure Chiral Polyfluorene Film. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1359-1362.	4.6	15
31	THz near-field enhancement by means of isolated dipolar antennas: the effect of finite sample size. <i>Optics Express</i> , 2016, 24, 4552.	3.4	14
32	Photoinduced transitions in magnetoresistive manganites: A comprehensive view. <i>Physical Review B</i> , 2018, 97, .	3.2	14
33	Domain-size effects on the dynamics of a charge density wave in TaS_2 . <i>Physical Review B</i> , 2017, 96, .	3.2	13
34	Optical control of vibrational coherence triggered by an ultrafast phase transition. <i>Physical Review B</i> , 2019, 99, .	3.2	13
35	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. <i>Physical Review B</i> , 2014, 89, .	3.2	12
36	Electric field generation of Skyrmion-like structures in a nematic liquid crystal. <i>Soft Matter</i> , 2016, 12, 853-858.	2.7	11

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37	Retrieving the complex polarizability of single plasmonic nanoresonators. Physical Review B, 2009, 80, .	3.2	10
38	Comparison of coherent phonon generation by electronic and ionic Raman scattering in LaAlO_3 . Physical Review Research, 2021, 3, .	1.6	1
39	Apparatus for vectorial Kerr confocal microscopy. Review of Scientific Instruments, 2011, 82, 023709.	1.3	8
40	Layer-sensitive magneto-optical spectroscopic study of magnetization dynamics in multilayered RE-TM structures. Applied Physics Letters, 2016, 109, .	3.3	8
41	Time-Resolved X-Ray Powder Diffraction Study of Photoinduced Phase Transitions in TiO_5 Nanoparticles. ChemPhysChem, 2017, 18, 1385-1392.	2.1	8
42	Gaining Control through Frustration: Two-Fold Approach for Liquid Crystal Three-Dimensional Command Layers. Nano Letters, 2014, 14, 3903-3907.	9.1	7
43	Correlations between electronic order and structural distortions and their ultrafast dynamics in the single-layer manganite $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_2$. Physical Review Research, 2022, 4, .	3.2	5
44	Optical excitation of electromagnons in hexaferrite. Physical Review Research, 2022, 4, .	3.6	4
45	Tailoring the interaction between matter and polarized light with plasmonic optical antennas. Proceedings of SPIE, 2011, , .	0.8	3
46	Attempting nanolocalization of all-optical switching through nano-holes in an Al-mask. Proceedings of SPIE, 2014, , .	0.8	3
47	Order at Extreme Dilution. Advanced Functional Materials, 2016, 26, 9009-9016.	14.9	3
48	Coupling between a Charge Density Wave and Magnetism in an Heusler Material. Physical Review Letters, 2017, 119, 227207.	7.8	3
49	Macroscopic movement of azo polymer chains by near-field probes: Dependence on the illumination conditions. Physica Status Solidi (B): Basic Research, 2010, 247, 2067-2070.	1.5	2
50	Kinetics of a Phonon-Mediated Laser-Driven Structural Phase Transition in $\text{Sn}_2\text{P}_2\text{Se}_6$. Applied Sciences (Switzerland), 2019, 9, 525.	2.5	2
51	Ultrafast generation of nanostructures with tunable topological properties by single laser pulse illumination. , 2013, , .		0
52	Influence of the Magnetization Compensation Point on the All-Optical Magnetization Switching. Springer Proceedings in Physics, 2015, , 30-31.	0.2	0
53	Fast and ultrafast all-optical control of light in nematic and smectic-A liquid crystals. , 2016, , .		0
54	2D THz spectroscopic investigation of ballistic conduction-band electron dynamics in InSb. , 2019, , .		0

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55	Multi-photon Autocorrelation in Gold Nanostructures. , 2011, , .		0
56	Layer-Specific Probing of Ultrafast Spin Dynamics in Multilayered Magnets with Visible Light. Springer Proceedings in Physics, 2015, , 69-71.	0.2	0
57	Improving the Efficiency of Ultrafast Optical Control of Magnetism in GdFeCo Continuous Films and Submicron Structures. Springer Proceedings in Physics, 2015, , 267-269.	0.2	0
58	All-optical switching of magnetic domains moves one step closer to application. SPIE Newsroom, 0, , .	0.1	0