

Matteo Savoini

List of Publications by Year in descending order

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citations

304743

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62
all docs

62
docs citations

62
times ranked

2866
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical excitation of electromagnons in hexaferrite. Physical Review Research, 2022, 4, .	3.6	4
2	Comparison of coherent phonon generation by electronic and ionic Raman scattering in LaAlO_3 . Physical Review Research, 2021, 3, .	3.2	5
3	Nonequilibrium charge-density-wave order beyond the thermal limit. Nature Communications, 2021, 12, 2499.	12.8	33
4	Correlations between electronic order and structural distortions and their ultrafast dynamics in the single-layer manganite PbPrO_6 . Physical Review Research, 2021, 3, .	3.2	5
5	2D THz spectroscopic investigation of ballistic conduction-band electron dynamics in InSb. , 2019, , .		0
6	Optical control of vibrational coherence triggered by an ultrafast phase transition. Physical Review B, 2019, 99, .	3.2	13
7	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
8	The ultrafast Einstein-de Haas effect. Nature, 2019, 565, 209-212.	27.8	151
9	2D THz spectroscopic investigation of ballistic conduction-band electron dynamics in InSb. Optics Express, 2019, 27, 10854.	3.4	27
10	Photoinduced transitions in magnetoresistive manganites: A comprehensive view. Physical Review B, 2018, 97, .	3.2	14
11	THz Generation and Detection by Fluorenone Based Organic Crystals. ACS Photonics, 2018, 5, 671-677.	6.6	42
12	Ultrafast Relaxation Dynamics of the Antiferrodistortive Phase in Ca Doped SrTiO_3 . Physical Review Letters, 2018, 121, 055701.	7.8	20
13	Time-Resolved X-Ray Powder Diffraction Study of Photoinduced Phase Transitions in Ti_3O_5 Nanoparticles. ChemPhysChem, 2017, 18, 1385-1392.	2.1	8
14	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. Nano Letters, 2017, 17, 2426-2432.	9.1	22
15	Domain-size effects on the dynamics of a charge density wave in TaS_2 . Physical Review B, 2017, 96, .	3.2	13
16	Coupling between a Charge Density Wave and Magnetism in an Heusler Material. Physical Review Letters, 2017, 119, 227207.	7.8	3
17	Ultrafast Formation of a Charge Density Wave State in TaS_2 : Observation at Nanometer Scales Using Time-Resolved X-Ray Diffraction. Physical Review Letters, 2017, 118, 247401.	7.8	3
18	Watching ultrafast responses of structure and magnetism in condensed matter with momentum-resolved probes. Structural Dynamics, 2017, 4, 061506.	2.3	21

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19	Layer-sensitive magneto-optical spectroscopic study of magnetization dynamics in multilayered RE-TM structures. Applied Physics Letters, 2016, 109, .	3.3	8
20	Order at Extreme Dilution. Advanced Functional Materials, 2016, 26, 9009-9016.	14.9	3
21	Deterministic character of all-optical magnetization switching in GdFe-based ferrimagnetic alloys. Physical Review B, 2016, 93, .	3.2	22
22	Fast and ultrafast all-optical control of light in nematic and smectic-A liquid crystals. , 2016, , .		0
23	THz near-field enhancement by means of isolated dipolar antennas: the effect of finite sample size. Optics Express, 2016, 24, 4552.	3.4	14
24	Electric field generation of Skyrmion-like structures in a nematic liquid crystal. Soft Matter, 2016, 12, 853-858.	2.7	11
25	Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. Advanced Optical Materials, 2015, 3, 948-956.	7.3	39
26	Influence of the Magnetization Compensation Point on the All-Optical Magnetization Switching. Springer Proceedings in Physics, 2015, , 30-31.	0.2	0
27	Ultrafast all-optical response of a nematic liquid crystal. Optics Express, 2015, 23, 14010.	3.4	25
28	Nanoscale sub-100 picosecond all-optical magnetization switching in GdFeCo microstructures. Nature Communications, 2015, 6, 5839.	12.8	74
29	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. Nano Letters, 2015, 15, 6862-6868.	9.1	126
30	Layer-Specific Probing of Ultrafast Spin Dynamics in Multilayered Magnets with Visible Light. Springer Proceedings in Physics, 2015, , 69-71.	0.2	0
31	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
32	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a 1/4m spatial-resolution. Review of Scientific Instruments, 2014, 85, 063702.	1.3	37
33	Attempting nanolocalization of all-optical switching through nano-holes in an Al-mask. Proceedings of SPIE, 2014, , .	0.8	3
34	Optical excitation of thin magnetic layers in multilayer structures. Nature Materials, 2014, 13, 101-102.	27.5	35
35	Gaining Control through Frustration: Two-Fold Approach for Liquid Crystal Three-Dimensional Command Layers. Nano Letters, 2014, 14, 3903-3907.	9.1	7
36	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. Physical Review B, 2014, 89, .	3.2	12

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37	Element-Specific Probing of Ultrafast Spin Dynamics in Multisublattice Magnets with Visible Light. Physical Review Letters, 2013, 110, 107205.	7.8	85
38	Laser-Induced Magnetic Nanostructures with Tunable Topological Properties. Physical Review Letters, 2013, 110, 177205.	7.8	256
39	The role of magnetization compensation point for efficient ultrafast control of magnetization in Gd ₂₄ Fe _{66.5} Co _{9.5} alloy. European Physical Journal B, 2013, 86, 1.	1.5	17
40	Ultrafast generation of nanostructures with tunable topological properties by single laser pulse illumination. , 2013, , .		0
41	Self-Assembled Organic Microfibers for Nonlinear Optics. Advanced Materials, 2013, 25, 2084-2089.	21.0	119
42	Optical energy optimization at the nanoscale by near-field interference. Applied Physics Letters, 2012, 101, .	3.3	19
43	Highly efficient all-optical switching of magnetization in GdFeCo microstructures by interference-enhanced absorption of light. Physical Review B, 2012, 86, .	3.2	41
44	Role of Magnetic Circular Dichroism in All-Optical Magnetic Recording. Physical Review Letters, 2012, 108, 127205.	7.8	253
45	Ultrafast laser-induced demagnetization in Gd _x Fe _{100-x} alloys. Physical Review B, 2012, 85, 014407.	3.2	30
46	Circular Dichroism Probed by Two-Photon Fluorescence Microscopy in Enantiopure Chiral Polyfluorene Thin Films. Journal of the American Chemical Society, 2012, 134, 5832-5835.	13.7	28
47	Spontaneous Formation of Left- and Right-Handed Cholesterically Ordered Domains in an Enantiopure Chiral Polyfluorene Film. Journal of Physical Chemistry Letters, 2011, 2, 1359-1362.	4.6	15
48	Tailoring the interaction between matter and polarized light with plasmonic optical antennas. Proceedings of SPIE, 2011, , .	0.8	3
49	Apparatus for vectorial Kerr confocal microscopy. Review of Scientific Instruments, 2011, 82, 023709.	1.3	8
50	Multi-photon Autocorrelation in Gold Nanostructures. , 2011, , .		0
51	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
52	Experimental Observation of a Photon Bouncing Ball. Physical Review Letters, 2009, 102, 180402.	7.8	44
53	All-optical subdiffraction multilevel data encoding onto azo-polymeric thin films. Optics Letters, 2009, 34, 761.	3.3	22
54	Near-field circular polarization probed by chiral polyfluorene. Optics Letters, 2009, 34, 3571.	3.3	17

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55	Near-field polarization shaping by a near-resonant plasmonic cross antenna. Physical Review B, 2009, 80, .	3.2	91
56	Retrieving the complex polarizability of single plasmonic nanoresonators. Physical Review B, 2009, 80, .	3.2	10
57	Dependence of the two-photon photoluminescence yield of gold nanostructures on the laser pulse duration. Physical Review B, 2009, 80, .	3.2	87
58	All-optical switching of magnetic domains moves one step closer to application. SPIE Newsroom, 0, , .	0.1	0