

# Patrik Grychtol

## List of Publications by Year in descending order

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53  
papers

2,867  
citations

361388

20  
h-index

276858

41  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2093  
citing authors



#	ARTICLE	IF	CITATIONS
19	Phase matching of noncollinear sum and difference frequency high harmonic generation above and below the critical ionization level. <i>Optics Express</i> , 2017, 25, 10126.	3.4	17
20	Heisenberg vs. Stoner: Probing the Microscopic Picture of Ultrafast Demagnetization using High Harmonics. , 2017, , .		0
21	Phase Matching of Noncollinear Sum and Difference Frequency High Harmonic Generation. , 2017, , .		0
22	Elliptically Polarized Attosecond Pulse Trains Produced via Circularly Polarized High Harmonic Generation. , 2017, , .		0
23	Tomographic reconstruction of circularly polarized high-harmonic fields: 3D attosecond metrology. <i>Science Advances</i> , 2016, 2, e1501333.	10.3	103
24	Stoner versus Heisenberg: Ultrafast exchange reduction and magnon generation during laser-induced demagnetization. <i>Physical Review B</i> , 2016, 94, .	3.2	72
25	Controlling Nonsequential Double Ionization in Two-Color Circularly Polarized Femtosecond Laser Fields. <i>Physical Review Letters</i> , 2016, 117, 133201.	7.8	104
26	Controlling electron-ion rescattering in two-color circularly polarized femtosecond laser fields. <i>Physical Review A</i> , 2016, 93, .	2.5	100
27	Helicity-selective phase-matching and quasi-phase matching of circularly polarized high-order harmonics: towards chiral attosecond pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 123501.	1.5	41
28	Generation of Bright Circularly-Polarized High Harmonics for Magneto-Optical Investigations. <i>Springer Proceedings in Physics</i> , 2016, , 187-192.	0.2	0
29	Generation of Bright Soft X-ray Harmonics with Circular Polarization for X-ray Magnetic Circular Dichroism. , 2016, , .		0
30	Bright Soft X-ray High Harmonic Generation with Circular Polarization for X-ray Magnetic Circular Dichroism. , 2016, , .		0
31	Heisenberg vs. Stoner: Magnon Generation and Exchange Reduction during Ultrafast Demagnetization. , 2016, , .		0
32	Tomographic Reconstruction of Circularly Polarized High Harmonic Fields. , 2016, , .		0
33	Bright circularly polarized soft X-ray high harmonics for X-ray magnetic circular dichroism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14206-14211.	7.1	235
34	Femtosecond-laser-induced modifications in Co/Pt multilayers studied with tabletop resonant magnetic scattering. <i>Europhysics Letters</i> , 2015, 109, 17001.	2.0	3
35	Strong-field ionization with two-color circularly polarized laser fields. <i>Physical Review A</i> , 2015, 91, .	2.5	124
36	Non-collinear generation of angularly isolated circularly polarized high harmonics. <i>Nature Photonics</i> , 2015, 9, 743-750.	31.4	216

#	ARTICLE	IF	CITATIONS
37	Generation of bright phase-matched circularly-polarized extreme ultraviolet high harmonics. Nature Photonics, 2015, 9, 99-105.	31.4	403
38	X-Ray Magnetic Circular Dichroism Probed Using High Harmonics. Springer Proceedings in Physics, 2015, , 60-63.	0.2	1
39	Probing Ultrafast Magnetization Dynamics using Bright Circularly Polarized High Harmonics. , 2015, , .		0
40	Magnetic Circular Dichroism probed using High Harmonics. , 2014, , .		0
41	Ultrafast element-specific magnetization dynamics of complex magnetic materials on a table-top. Journal of Electron Spectroscopy and Related Phenomena, 2013, 189, 164-170.	1.7	40
42	Controlling the Competition between Optically Induced Ultrafast Spin-Flip Scattering and Spin Transport in Magnetic Multilayers. Physical Review Letters, 2013, 110, 197201.	7.8	218
43	Reply to "Comment on "Ultrafast Demagnetization Measurements Using Extreme Ultraviolet Light: Comparison of Electronic and Magnetic Contributions" Physical Review X, 2013, 3, .	8.9	0
44	Probing the timescale of the exchange interaction in a ferromagnetic alloy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4792-4797.	7.1	210
45	Ultrafast magnetization enhancement in metallic multilayers driven by superdiffusive spin current. Nature Communications, 2012, 3, 1037.	12.8	324
46	Layer-selective studies of an anti-ferromagnetically coupled multilayer by resonant magnetic reflectivity in the extreme ultraviolet range. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 287-290.	1.7	6
47	Time-resolved measurements of Ni80Fe20/MgO/Co trilayers in the extreme ultraviolet range. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 291-295.	1.7	7
48	Nano and picosecond magnetization dynamics of weakly coupled CoFe/Cr/NiFe trilayers studied by a multitechnique approach. Physical Review B, 2011, 84, .	3.2	9
49	Resonant magnetic reflectivity in the extreme ultraviolet spectral range: Interlayer-coupled Co/Si/Ni/Fe multilayer system. Physical Review B, 2010, 82, .	3.2	17
50	Ultrafast, Element-Specific, Demagnetization Dynamics Probed using Coherent High Harmonic Beams. , 2010, , .		0
51	Anomalies in the thermomechanical behavior of Ba0.5Sr0.5Co0.8Fe0.2O3 ceramic oxygen conductive membranes at intermediate temperatures. Applied Physics Letters, 2009, 95, 051901.	3.3	22
52	Ultrafast Demagnetization Dynamics at the $M$ Edges of Magnetic Elements Observed Using a Tabletop High-Harmonic Soft X-Ray Source. Physical Review Letters, 2009, 103, 257402.	7.8	197
53	Simultaneous dual-band ultra-high resolution optical coherence tomography. Optics Express, 2007, 15, 10832.	3.4	83