

Nina Renate Gabriele Rohringer

List of Publications by Year in descending order

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63
papers

4,106
citations

236612

25
h-index

168136

53
g-index

64
all docs

64
docs citations

64
times ranked

3028
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time observation of valence electron motion. Nature, 2010, 466, 739-743.	13.7	1,040
2	Femtosecond electronic response of atoms to ultra-intense X-rays. Nature, 2010, 466, 56-61.	13.7	711
3	Atomic inner-shell X-ray laser at 1.46 nanometres pumped by an X-ray free-electron laser. Nature, 2012, 481, 488-491.	13.7	321
4	Roadmap of ultrafast x-ray atomic and molecular physics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 032003.	0.6	240
5	Nonlinear Atomic Response to Intense Ultrashort X Rays. Physical Review Letters, 2011, 106, 083002.	2.9	221
6	X-ray nonlinear optical processes using a self-amplified spontaneous emission free-electron laser. Physical Review A, 2007, 76, .	1.0	153
7	Configuration-interaction-based time-dependent orbital approach forab initiotreatment of electronic dynamics in a strong optical laser field. Physical Review A, 2006, 74, .	1.0	133
8	Unveiling and Driving Hidden Resonances with High-Fluence, High-Intensity X-Ray Pulses. Physical Review Letters, 2011, 107, 233001.	2.9	131
9	Stimulated Electronic X-Ray Raman Scattering. Physical Review Letters, 2013, 111, 233902.	2.9	123
10	Multichannel coherence in strong-field ionization. Physical Review A, 2009, 79, .	1.0	105
11	Role of Many-Electron Dynamics in High Harmonic Generation. Physical Review Letters, 2006, 96, 223902.	2.9	87
12	Resonant Auger effect at high x-ray intensity. Physical Review A, 2008, 77, .	1.0	87
13	Resonant $K\pm$ Spectroscopy of Solid-Density Aluminum Plasmas. Physical Review Letters, 2012, 109, 245003.	2.9	58
14	High-Harmonic Probing of Electronic Coherence in Dynamically Aligned Molecules. Physical Review Letters, 2013, 111, 243005.	2.9	56
15	Laser-Cluster Interaction: X-Ray Production by Short Laser Pulses. Physical Review Letters, 2006, 96, 013203.	2.9	50
16	Stimulated X-Ray Emission Spectroscopy in Transition Metal Complexes. Physical Review Letters, 2018, 120, 133203.	2.9	48
17	Amplified X-Ray Emission from Core-Ionized Diatomic Molecules. Physical Review Letters, 2013, 110, 043901.	2.9	40
18	Stochastic stimulated electronic x-ray Raman spectroscopy. Structural Dynamics, 2016, 3, 034101.	0.9	34

#	ARTICLE	IF	CITATIONS
19	Atomic inner-shell x-ray laser pumped by an x-ray free-electron laser. <i>Physical Review A</i> , 2009, 80, .	1.0	32
20	Strongly driven resonant Auger effect treated by an open-quantum-system approach. <i>Physical Review A</i> , 2012, 86, .	1.0	31
21	Calculating state-to-state transition probabilities within time-dependent density-functional theory. <i>Physical Review A</i> , 2006, 74, .	1.0	27
22	Stimulated resonant x-ray Raman scattering with incoherent radiation. <i>Physical Review A</i> , 2013, 88, .	1.0	27
23	Population inversion X-ray laser oscillator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15511-15516.	3.3	27
24	Transient-gain photoionization x-ray laser. <i>Physical Review A</i> , 2014, 90, .	1.0	25
25	Stimulated X-ray Raman scattering – a critical assessment of the building block of nonlinear X-ray spectroscopy. <i>Faraday Discussions</i> , 2016, 194, 305-324.	1.6	25
26	X-ray Raman scattering: a building block for nonlinear spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20170471.	1.6	25
27	Above-threshold ionization in the x-ray regime. <i>Physical Review A</i> , 2009, 80, .	1.0	24
28	Photoemission spectroscopy with high-intensity short-wavelength lasers. <i>Physical Review A</i> , 2014, 89, .	1.0	24
29	Evidence of Extreme Ultraviolet Superfluorescence in Xenon. <i>Physical Review Letters</i> , 2019, 123, 023201.	2.9	23
30	The sensitivities of high-harmonic generation and strong-field ionization to coupled electronic and nuclear dynamics. <i>Faraday Discussions</i> , 2014, 171, 113-132.	1.6	20
31	Observation of Seeded Mn $K\alpha$ Stimulated X-Ray Emission Using Two-Color X-Ray Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2020, 125, 037404.	2.9	20
32	Nonlinear resonant Auger spectroscopy in CO using an x-ray pump-control scheme. <i>Physical Review A</i> , 2016, 94, .	1.0	19
33	Quantum-beat Auger spectroscopy. <i>Physical Review A</i> , 2015, 92, .	1.0	14
34	Quantum theory of superfluorescence based on two-point correlation functions. <i>Physical Review A</i> , 2019, 99, .	1.0	14
35	Theoretical study of molecular electronic and rotational coherences by high-order-harmonic generation. <i>Physical Review A</i> , 2015, 91, .	1.0	13
36	Attosecond photoionization dynamics with stimulated core-valence transitions. <i>Physical Review A</i> , 2016, 93, .	1.0	10

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37	Time-dependent calculations of electron energy distribution functions for neon gas in the presence of intense XFEL radiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 235004.	0.6	9
38	X-ray lasing in the CO molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164017.	0.6	9
39	Attosecond dynamics of light-induced resonant hole transfer in high-order-harmonic generation. <i>Physical Review A</i> , 2017, 95, .	1.0	9
40	Bargmann representation for Landau levels in two dimensions. <i>Journal of Physics A</i> , 2003, 36, 4173-4190.	1.6	8
41	Amplified spontaneous emission in the extreme ultraviolet by expanding xenon clusters. <i>Physical Review A</i> , 2020, 101, .	1.0	6
42	Towards novel probes for valence charges <i>via</i> X-ray optical wave mixing. <i>Faraday Discussions</i> , 2021, 228, 451-469.	1.6	5
43	Publisher's Note: Resonant Auger effect at high x-ray intensity [<i>Phys. Rev. A</i> 77 (2008)]. <i>Physical Review A</i> , 2008, 77, .	1.0	4
44	Generation of intense phase-stable femtosecond hard X-ray pulse pairs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119616119.	3.3	4
45	Interaction of ultra-short laser pulses with clusters: short-time dynamics of a nano-plasma. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	2
46	An atomic inner-shell laser pumped with an x-ray free-electron laser. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012012.	0.3	2
47	Stimulated resonant inelastic x-ray scattering with chirped, broadband pulses. <i>Physical Review A</i> , 2019, 99, .	1.0	2
48	Cluster-laser interaction: fast production of hot electrons by short laser pulses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 235, 210-215.	0.6	1
49	In-plane rotation classification for coherent X-ray imaging of single biomolecules. <i>Optics Express</i> , 2011, 19, 11691.	1.7	1
50	X-ray lasing in diatomic molecules. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012025.	0.3	1
51	X-ray lasing in diatomic molecules. <i>Journal of Physics: Conference Series</i> , 2014, 488, 032019.	0.3	1
52	Strong-field physics: general discussion. <i>Faraday Discussions</i> , 2021, 228, 470-487.	1.6	1
53	Pumping a photoionization atomic inner-shell x-ray laser by x-ray free-electron laser radiation. , 2009, , .		0
54	Design and measurement of a Cu L-edge x-ray filter for free electron laser pumped x-ray laser experiments. <i>Review of Scientific Instruments</i> , 2010, 81, 10E330.	0.6	0

#	ARTICLE	IF	CITATIONS
55	Attosecond Transient Absorption Spectroscopy for Real-Time Observation of Valence Electron Motion. , 2010, , .		0
56	Using the X-FEL to photo-pump x-ray laser transitions in He-like Ne. Proceedings of SPIE, 2011, , .	0.8	0
57	Mixing waves in a diamond. Nature, 2012, 488, 598-599.	13.7	0
58	Atomic and Molecular Inner-Shell X-Ray Lasers. , 2012, , .		0
59	Atomic Inner-Shell X-Ray Lasers pumped by XFEL sources. , 2013, , .		0
60	Non-resonant and resonant x-ray photo pumping of a dense neon gas with x-ray free-electron lasers. , 2011, , .		0
61	Multi Photon Physics at the LCLS. , 2011, , .		0
62	FEL-induced Amplified XUV emission of Xenon clusters. , 2020, , .		0
63	Modeling of 3D paraxial x-ray superfluorescence based on stochastic differential equations. , 2022, , .		0