

Baerbel Rethfeld

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,156
citations

840776

11
h-index

642732

23
g-index

27
all docs

27
docs citations

27
times ranked

1265
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of primary and secondary processes in the ultrafast spin dynamics of nickel. Applied Physics Letters, 2022, 120, .	3.3	9
2	Nonequilibrium band occupation and optical response of gold after ultrafast XUV excitation. Scientific Reports, 2022, 12, 4693.	3.3	3
3	Experimental and theoretical study of the ablation of silicon with THz bursts of fs laser pulses. , 2022, , .		0
4	Influence of diffusive transport on ultrafast magnetization dynamics. Applied Physics Letters, 2022, 120, .	3.3	2
5	Key role of surface plasmon polaritons in generation of periodic surface structures following single-pulse laser irradiation of a gold step edge. Nanophotonics, 2022, 11, 359-367.	6.0	14
6	Influence of Electronic Non-Equilibrium on Energy Distribution and Dissipation in Aluminum Studied with an Extended Two-Temperature Model. Nanomaterials, 2022, 12, 1655.	4.1	8
7	Fundamentals of Scanning Surface Structuring by Ultrashort Laser Pulses: From Electron Diffusion to Final Morphology. Advanced Photonics Research, 2022, 3, .	3.6	9
8	Dynamic all-optical control in ultrashort double-pulse laser ablation. Applied Surface Science, 2021, 537, 147940.	6.1	11
9	Magnetic-field assisted laser ablation of silicon. Journal of the Optical Society of America B: Optical Physics, 2021, 38, E1.	2.1	2
10	Energy and Momentum Distribution of Surface Plasmon-Induced Hot Carriers Isolated <i>via</i> Spatiotemporal Separation. ACS Nano, 2021, 15, 19559-19569.	14.6	17
11	Numerical Investigation of Ultrashort Laser-Ablative Synthesis of Metal Nanoparticles in Liquids Using the Atomistic-Continuum Model. Molecules, 2020, 25, 67.	3.8	13
12	Simultaneous Manipulation of the Optical and Wettability Properties of Metal Surfaces Using 150 kHz Femtosecond Fiber Laser. Applied Sciences (Switzerland), 2020, 10, 6207.	2.5	6
13	Formation of Periodic Nanoridge Patterns by Ultrashort Single Pulse UV Laser Irradiation of Gold. Nanomaterials, 2020, 10, 1998.	4.1	10
14	Ultrafast magnetization dynamics of Mn-doped L10 FePt with spatial inhomogeneity. Journal of Magnetism and Magnetic Materials, 2020, 502, 166477.	2.3	1
15	Solving a System of Differential Equations Containing a Diffusion Equation with Nonlinear Terms on the Example of Laser Heating in Silicon. Applied Sciences (Switzerland), 2020, 10, 1853.	2.5	9
16	Femtosecond formation dynamics of the spin Seebeck effect revealed by terahertz spectroscopy. Nature Communications, 2018, 9, 2899.	12.8	131
17	Electron dynamics in silver after ultrafast laser-excitation. , 2018, , .		0
18	Relaxation processes in laser-excited dielectrics. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Modelling ultrafast laser ablation. Journal Physics D: Applied Physics, 2017, 50, 193001.	2.8	331
20	Transient electron excitation and nonthermal electron-phonon coupling in dielectrics irradiated by ultrashort laser pulses. Physical Review B, 2017, 95, .	3.2	14
21	Ultrafast magnetization dynamics in Nickel: impact of pump photon energy. Journal of Physics Condensed Matter, 2017, 29, 244002.	1.8	26
22	Fundamentals of ultrafast laser-material interaction. MRS Bulletin, 2016, 41, 960-968.	3.5	185
23	Modeling the transient optical parameters in laser-excited band gap materials. Optical Engineering, 2016, 56, 011015.	1.0	15
24	Isostructural elemental crystals in the presence of hot carriers. Physical Review B, 2015, 91, .	3.2	12
25	Nanocrystalline structure of nanobump generated by localized photoexcitation of metal film. Journal of Applied Physics, 2010, 107, .	2.5	59
26	The mechanism of nanobump formation in femtosecond pulse laser nanostructuring of thin metal films. Applied Physics A: Materials Science and Processing, 2008, 92, 791-796.	2.3	95
27	<title>Theory of ultrashort laser pulse interaction with a metal</title>. , 1997, , .		174