

Hao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

443
citations

759233
12
h-index

752698
20
g-index

31
all docs

31
docs citations

31
times ranked

374
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherence in ultrafast laser-induced periodic surface structures. <i>Physical Review B</i> , 2015, 92, .	3.2	83
2	Spatio-temporal dynamics in nondiffractive Bessel ultrafast laser nanoscale volume structuring. <i>Laser and Photonics Reviews</i> , 2016, 10, 230-244.	8.7	54
3	Laser-induced periodic surface structures: Arbitrary angles of incidence and polarization states. <i>Physical Review B</i> , 2020, 101, .	3.2	33
4	Enhancing the expansion of a plasma shockwave by crater-induced laser refocusing in femtosecond laser ablation of fused silica. <i>Photonics Research</i> , 2017, 5, 488.	7.0	31
5	Ultrafast switching of surface plasmonic conditions in nonplasmonic metals. <i>Physical Review B</i> , 2016, 93, .	3.2	24
6	Ultrafast destructuring of laser-irradiated tungsten: Thermal or nonthermal process. <i>Physical Review B</i> , 2016, 94, .	3.2	22
7	Mixing periodic topographies and structural patterns on silicon surfaces mediated by ultrafast photoexcited charge carriers. <i>Physical Review Research</i> , 2020, 2, .	3.6	21
8	Unraveling Phononic, Optoacoustic, and Mechanical Properties of Metals with Light-Driven Hypersound. <i>Physical Review Applied</i> , 2020, 13, .	3.8	20
9	Detection of periodic structures through opaque metal layers by optical measurements of ultrafast electron dynamics. <i>Optics Express</i> , 2018, 26, 23380.	3.4	16
10	Detection of Hidden Gratings through Multilayer Nanostructures Using Light and Sound. <i>Physical Review Applied</i> , 2020, 14, .	3.8	15
11	Scattering effects and high-spatial-frequency nanostructures on ultrafast laser irradiated surfaces of zirconium metallic alloys with nano-scaled topographies. <i>Optics Express</i> , 2016, 24, 11558.	3.4	14
12	Saturation effects in femtosecond laser ablation of silicon-on-insulator. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	13
13	Modeling and experiments of self-reflectivity under femtosecond ablation conditions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 606.	2.1	10
14	Cylindrically and non-cylindrically symmetric expansion dynamics of tin microdroplets after ultrashort laser pulse impact. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	9
15	Controllable anisotropic wetting characteristics on silicon patterned by slit-based spatial focusing of femtosecond laser. <i>Optics Express</i> , 2016, 24, 25732.	3.4	8
16	Impact of evolving surface nanoscale topologies in femtosecond laser structuring of Ni-based superalloy CMSX-4. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 015402.	2.2	8
17	Chemical etching mechanisms and crater morphologies pre-irradiated by temporally decreasing pulse trains of femtosecond laser. <i>Applied Surface Science</i> , 2019, 469, 44-49.	6.1	8
18	Photoacoustic detection of low duty cycle gratings through optically opaque layers. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	8

#	ARTICLE	IF	CITATIONS
19	High-resolution microscopy through optically opaque media using ultrafast photoacoustics. Optics Express, 2020, 28, 33937.	3.4	8
20	Self-scattering effects in femtosecond laser nanoablation. Optics Letters, 2013, 38, 5032.	3.3	7
21	Enhancement and blueshift of high-frequency laser-induced periodic surface structures with preformed nanoscale surface roughness. Optics Express, 2019, 27, 19973.	3.4	7
22	Ultrafast laser-induced guided elastic waves in a freestanding aluminum membrane. Physical Review B, 2021, 103, .	3.2	6
23	Role of scattering by surface roughness in the photoacoustic detection of hidden micro-structures. Applied Optics, 2020, 59, 9499.	1.8	6
24	Plasmonic enhancement of photoacoustic-induced reflection changes. Applied Optics, 2021, 60, 7304.	1.8	5
25	Laser-induced ultrasonics for detection of low-amplitude grating through metal layers with finite roughness. Optics Express, 2020, 28, 23374.	3.4	3
26	Enhancing the detection of laser-excited strain waves via transparent nanolayers. Physical Review B, 2021, 104, .	3.2	3
27	Controllable photon energy deposition efficiency in laser processing of fused silica by temporally shaped femtosecond pulse: Experimental and theoretical study. Optics and Laser Technology, 2020, 128, 106265.	4.6	1
28	Optical Interference and Self-Scattering Effect On Laser Ablation of Thin Silicon Films. MATEC Web of Conferences, 2013, 8, 04011.	0.2	0
29	Dynamics of optically excited tungsten and silicon for ripples formation. , 2015, , .		0
30	Modeling 2D and 3D periodic nanostructuring of materials with ultrafast laser pulses (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		
31	Influence of self-scattering on the fabrication of surface nanostructures in zinc phosphate glass using fs-laser pulses. , 2015, , .		0