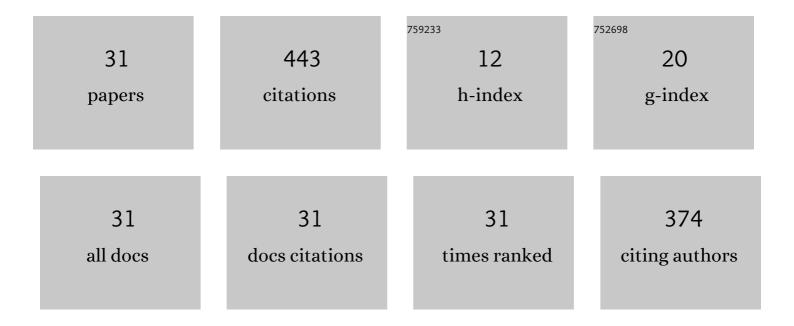
Hao Zhang

List of Publications by Year in descending order

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HAO ZHANC

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

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#	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, , .