Parviz Elahi

List of Publications by Year
in descending order

22	1,151	758635 12	1125271 13
papers	citations	h-index	g-index

22	22	22	1190
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ablation-cooled material removal with ultrafast bursts of pulses. Nature, 2016, 537, 84-88.	13.7	596
2	In-chip microstructures and photonic devices fabricated by nonlinear laser lithography deep inside silicon. Nature Photonics, 2017, 11, 639-645.	15.6	101
3	Breaking crosstalk limits to dynamic holography using orthogonality of high-dimensional random vectors. Nature Photonics, 2019, 13, 251-256.	15.6	88
4	Disorder-mediated crowd control in an active matter system. Nature Communications, 2016, 7, 10907.	5.8	64
5	High-Repetition-Rate Ultrafast Fiber Lasers for Material Processing. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-12.	1.9	64
6	High-power Yb-based all-fiber laser delivering 300â€‰â€‰fs pulses for high-speed ablation-cooled material removal. Optics Letters, 2018, 43, 535.	1.7	55
7	Generation of picosecond pulses directly from a 100ÂW, burst-mode, doping-managed Yb-doped fiber amplifier. Optics Letters, 2014, 39, 236.	1.7	41
8	3.5-GHz intra-burst repetition rate ultrafast Yb-doped fiber laser. Optics Communications, 2016, 366, 404-409.	1.0	38
9	Burst-mode thulium all-fiber laser delivering femtosecond pulses at a 1â€‰â€‰GHz intra-burst repetition rate. Optics Letters, 2017, 42, 3808.	1.7	32
10	Doping management for high-power fiber lasers: 100 W, few-picosecond pulse generation from an all-fiber-integrated amplifier. Optics Letters, 2012, 37, 3042.	1.7	28
11	Intracavity optical trapping of microscopic particles in a ring-cavity fiber laser. Nature Communications, 2019, 10, 2683.	5.8	21
12	175 fs-long pulses from a high-power single-mode Er-doped fiber laser at 1550 nm. Optics Communications, 2017, 403, 381-384.	1.0	17
13	Theoretical analysis of doping management. , 2013, , .		2
14	Theoretical analysis of doping management and its effects on power scaling. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 2336-2348.	0.9	2
15	Intracavity optical trapping with Ytterbium doped fiber ring laser. , 2013, , .		1
16	Applying the principle of orthogonality of high dimensional random vectors to obtain high-density, large-volume 3D holographic display. , 2018, , .		1
17	Ultrafast micromachining of Cu and Si at ultra-high repetition rates with pulse bursts. , 2015, , .		0
18	Compact 1.5-GHz intra-burst repetition rate Yb-doped all-PM-fiber laser system for ablation-cooled material removal. , 2017, , .		0

#	Article	IF	Citations
19	3.5-W, femtosecond chirped pulse amplification fiber laser system at 1560 nm. , 2017, , .		0
20	50-W, 1.6-GHz pulse repetition rate from a burst-mode Yb-doped fiber laser. , 2017, , .		0
21	Buried waveguides written deep inside silicon. , 2017, , .		0
22	Controlling Active Brownian Particles in Complex Settings. , 2017, , .		0