Emre Yuce

List of Publications by Year
in descending order

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37	286	933264	940416
papers	citations	10 h-index	16 g-index

38	38	38	346
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultimate fast optical switching of a planar microcavity in the telecom wavelength range. Applied Physics Letters, 2011, 98, 161114.	1.5	48
2	All-optical switching of a microcavity repeated at terahertz rates. Optics Letters, 2013, 38, 374.	1.7	33
3	Optical Modulation With Silicon Microspheres. IEEE Photonics Technology Letters, 2009, 21, 1481-1483.	1.3	22
4	Differential ultrafast all-optical switching of the resonances of a micropillar cavity. Applied Physics Letters, 2014, 105, .	1.5	16
5	Polarization behavior of elastic scattering from a silicon microsphere coupled to an optical fiber. Photonics Research, 2014, 2, 45.	3.4	15
6	Local thermal resonance control of GaInP photonic crystal membrane cavities using ambient gas cooling. Applied Physics Letters, 2015, 106, .	1.5	15
7	Femtosecond-scale switching based on excited free-carriers. Optics Express, 2015, 23, 16416.	1.7	14
8	Tuning out disorder-induced localization in nanophotonic cavity arrays. Optics Express, 2017, 25, 4598.	1.7	14
9	Competition between electronic Kerr and free-carrier effects in an ultimate-fast optically switched semiconductor microcavity. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2630.	0.9	12
10	On the pathway of photoexcited electrons: probing photon-to-electron and photon-to-phonon conversions in silicon by ATR-IR. Physical Chemistry Chemical Physics, 2012, 14, 10882.	1.3	11
11	Dispersion of coupled mode-gap cavities. Optics Letters, 2015, 40, 4488.	1.7	10
12	Measurement of the profiles of disorder-induced localized resonances in photonic crystal waveguides by local tuning. Optics Express, 2016, 24, 21939.	1.7	8
13	Optimal all-optical switching of a microcavity resonance in the telecom range using the electronic Kerr effect. Optics Express, 2016, 24, 239.	1.7	7
14	Adaptive Control of Necklace States in a Photonic Crystal Waveguide. ACS Photonics, 2018, 5, 3984-3988.	3.2	7
15	Fano lines in the reflection spectrum of directly coupled systems of waveguides and cavities: Measurements, modeling, and manipulation of the Fano asymmetry. Physical Review A, 2017, 96, .	1.0	6
16	Effective bandwidth approach for the spectral splitting of solar spectrum using diffractive optical elements. Optics Express, 2020, 28, 12911.	1.7	6
17	Geometrically enhanced morphology-dependent resonances of a dielectric sphere. Applied Optics, 2011, 50, 6652.	2.1	5
18	Wavefront shaping assisted design of spectral splitters and solar concentrators. Scientific Reports, 2021, 11, 2825.	1.6	5

#	Article	IF	Citations
19	Laser Photochemical Nanostructuring of Silicon for Surface Enhanced Raman Spectroscopy. Advanced Optical Materials, 2022, 10, .	3.6	5
20	Spectral splitting and concentration of broadband light using neural networks. APL Photonics, 2021, 6, 046101.	3.0	4
21	Comprehensive deep learning model for 3D color holography. Scientific Reports, 2022, 12, 2487.	1.6	4
22	Dynamical electrical tuning of a silicon microsphere: used for spectral mapping of the optical resonances. Applied Optics, 2014, 53, 6181.	0.9	3
23	Deep Learning Algorithm Applied to Daily Solar Irradiation Estimations. , 2018, , .		3
24	Broadband spectral splitting of white light via 2D diffractive optical elements. Turkish Journal of Physics, 2018, 42, 501-508.	0.5	3
25	Angle-independent diffractive optical elements for efficient solar energy conversion. , 2020, , .		3
26	Actively tunable photonic crystal-based switch via plasmon-analog of index enhancement. Applied Physics Letters, 2021, 119, .	1.5	2
27	Designs of Diffractive Optical Elements for Solar Energy Harvesting. , 2019, , .		1
28	Deep learning-based image transmission through a multi-mode fiber. , 2020, , .		1
29	Hybrid design of spectral splitters and concentrators of light for solar cells using iterative search and neural networks. Photonics and Nanostructures - Fundamentals and Applications, 2022, 48, 100987.	1.0	1
30	Near-infrared resonant cavity enhanced silicon microsphere photodetector. Proceedings of SPIE, 2009, , .	0.8	0
31	Silicon microspheres for optical modulation applications. , 2009, , .		0
32	Q-factor dependent Kerr switching of semiconductor microcavities. , 2011, , .		0
33	Ultimate fast optical switching of a semiconductor photonic microcavity. , 2011, , .		0
34	Competition between electronic Kerr and free carrier effects in an ultimate fast switched semiconductor microcavity. , 2011, , .		0
35	Frequency dependent dynamics of semiconductor microcavities under ultrafast carrier switching. , 2013, , .		0
36	All-optical switching of a microcavity repeated at terahertz clock rates. , 2013, , .		0

#	Article	IF	Citations
37	Nonlinear frequency conversion of light inside a microcavity. Turkish Journal of Physics, 2019, 43, 221-227.	0.5	0