Yuval Yifat

List of Publications by Year
in descending order

30 papers	530 citations	759233 12 h-index	794594 19 g-index
30 all docs	30 docs citations	30 times ranked	792 citing authors

#	Article	IF	Citations
1	Facile Measurement of the Rotation of a Single Optically Trapped Nanoparticle Using the Diagonal Ratio of a Quadrant Photodiode. ACS Photonics, 2021, 8, 3162-3172.	6.6	2
2	Optical matter machines: angular momentum conversion by collective modes in optically bound nanoparticle arrays. Optica, 2020, 7, 1341.	9.3	28
3	Three-dimensional optical trapping and orientation of microparticles for coherent X-ray diffraction imaging. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4018-4024.	7.1	18
4	Crossover from positive to negative optical torque in mesoscale optical matter. Nature Communications, 2018, 9, 4897.	12.8	50
5	Reactive optical matter: light-induced motility in electrodynamically asymmetric nanoscale scatterers. Light: Science and Applications, 2018, 7, 105.	16.6	26
6	Dark Plasmon Modes in Symmetric Gold Nanoparticle Dimers Illuminated by Focused Cylindrical Vector Beams. Journal of Physical Chemistry C, 2018, 122, 27662-27672.	3.1	41
7	Particle tracking by repetitive phase-shift interferometric super resolution microscopy. Optics Letters, 2018, 43, 2819.	3.3	3
8	Identifying and correcting pixel locking errors with the SPIFF algorithm. , 2018, , .		0
9	Mid-IR colloidal quantum dot detectors enhanced by optical nano-antennas. Applied Physics Letters, 2017, 110, .	3.3	54
10	Rotation and Negative Torque in Electrodynamically Bound Nanoparticle Dimers. Nano Letters, 2017, 17, 6548-6556.	9.1	34
11	Analysis and correction of errors in nanoscale particle tracking using the Single-pixel interior filling function (SPIFF) algorithm. Scientific Reports, 2017, 7, 16553.	3.3	11
12	Polarization dependent particle dynamics in simple traps. Proceedings of SPIE, 2016, , .	0.8	1
13	Spectral characterization of nanostructured birefringent porous silicon. Applied Optics, 2015, 54, 10636.	2.1	3
14	Metasurfaces make it practical. Nature Nanotechnology, 2015, 10, 296-298.	31.5	35
15	Degeneracy Breaking of Woodâ€™s Anomaly for Enhanced Refractive Index Sensing. ACS Photonics, 2015, 2, 615-621.	6.6	40
16	Plasmonic holography: obtaining wide angle, broadband, and high efficiency. , 2015, , .		1
17	Nano slot-antenna array refractive index sensors: approaching the conventional theoretical limit of the figure of merit. , 2015, , .		1
18	Nano-antenna elements for controlling optical phase. , 2014, , .		1

#	Article	IF	Citations
19	Ultra-Sensitive Refractive Index Sensor Utilizing Plasmonic Resonance Splitting. , 2014, , .		0
20	Highly Efficient and Broadband Wide-Angle Holography Using Patch-Dipole Nanoantenna Reflectarrays. Nano Letters, 2014, 14, 2485-2490.	9.1	134
21	High load sensitivity in wideband infrared dual-Vivaldi nanoantennas. Optics Letters, 2013, 38, 205.	3.3	17
22	Dynamical trapping of light in coupled laser arrays: slow or fast?. , 2012, , .		0
23	Quantifying the radiation efficiency of nano antennas. Applied Physics Letters, 2012, 100, 111113.	3.3	24
24	Nano-particle trapping by optically induced Dielectrophoresis enhanced by nano-antennas. , 2012, , .		0
25	Theoretical analysis for active coupled resonator optical waveguide arrays and applications. Journal of Nanophotonics, 2011, 5, 051822.	1.0	2
26	Optical nano-antennas: a new approach for optical imaging and detection. , 2011, , .		0
27	Dynamical Slowing and trapping of light in coupled semiconductor laser arrays. Optics Express, 2009, 17, 17530.	3.4	4
28	Coupled semiconductor laser arrays and their applications. Proceedings of SPIE, 2009, , .	0.8	0
29	Optical pulse capture and release in coupled semiconductor laser arrays. , 2009, , .		0
30	Wide-angle, broadband, and highly efficient holography. SPIE Newsroom, 0, , .	0.1	0