Manohar Chirumamilla

List of Publications by Year
in descending order

41 papers	1,242 citations	430874 18 h-index	477307 29 g-index
41 all docs	41 docs citations	41 times ranked	1781 citing authors

#	Article	IF	Citations
1	Which factor determines the optical losses in refractory tungsten thin films at high temperatures?. Applied Surface Science, 2022, 588, 152927.	6.1	5
2	Structural degradation of tungsten sandwiched in hafnia layers determined by in-situ XRD up to 1520ÂÂ°C. Scientific Reports, 2021, 11, 3330.	3.3	15
3	Unprecedented Thermal Stability of Plasmonic Titanium Nitride Films up to 1400 Â°C. Advanced Optical Materials, 2021, 9, 2100323.	7.3	34
4	Spectrally selective emitters based on 3D Mo nanopillars for thermophotovoltaic energy harvesting. Materials Today Physics, 2021, 21, 100503.	6.0	20
5	Optical Properties of the Refractory Metals at High Temperatures. , 2021, , .		0
6	Harnessing Slow Light in Optoelectronically Engineered Nanoporous Photonic Crystals for Visible Light-Enhanced Photocatalysis. ACS Catalysis, 2021, 11, 12947-12962.	11.2	24
7	Thermal stability of tungsten based metamaterial emitter under medium vacuum and inert gas conditions. Scientific Reports, 2020, 10, 3605.	3.3	34
8	Spectrally selective emitters stable up to 1400.C for thermophotovoltaic applications. , 2020, , .		0
9	Metamaterial emitter for thermophotovoltaics stable up to 1400â€‰Â°C. Scientific Reports, 2019, 9, 7241.	3.3	64
10	High Temperature Optical Metamaterials. , 2019, , .		0
11	Arrays of Size-Selected Metal Nanoparticles Formed by Cluster Ion Beam Technique. MRS Advances, 2018, 3, 2771-2776.	0.9	7
12	Engineering 3D Multi-Branched Nanostructures for Ultra- Sensing Applications. , 2018, , .		0
13	Ultra-thin titanium nitride films for refractory spectral selectivity [Invited]. Optical Materials Express, 2018, 8, 3717.	3.0	26
14	Hotâ€Spot Engineering in 3D Multiâ€Branched Nanostructures: Ultrasensitive Substrates for Surfaceâ€Enhanced Raman Spectroscopy. Advanced Optical Materials, 2017, 5, 1600836.	7.3	32
15	Largeâ€Area Ultrabroadband Absorber for Solar Thermophotovoltaics Based on 3D Titanium Nitride Nanopillars. Advanced Optical Materials, 2017, 5, 1700552.	7.3	126
16	Thermophotovoltaics: Largeâ€Area Ultrabroadband Absorber for Solar Thermophotovoltaics Based on 3D Titanium Nitride Nanopillars (Advanced Optical Materials 22/2017). Advanced Optical Materials, 2017, 5, .	7.3	3
17	Poly(methyl methacrylate) composites with size-selected silver nanoparticles fabricated using cluster beam technique. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1152-1159.	2.1	23
18	Multilayer tungsten-alumina-based broadband light absorbers for high-temperature applications. Optical Materials Express, 2016, 6, 2704.	3.0	101

#	Article	IF	Citations
19	Light extinction and scattering from individual and arrayed high-aspect-ratio trenches in metals. Physical Review B, 2016, 93, .	3.2	12
20	Gold Nanoantennas on a Pedestal for Plasmonic Enhancement in the Infrared. ACS Photonics, 2015, 2, 497-505.	6.6	76
21	Near-infrared tailored thermal emission from wafer-scale continuous-film resonators. Optics Express, 2015, 23, A1111.	3.4	24
22	3D Plasmonic nanostar structures for recyclable SERS applications. , 2015, , .		0
23	Modeling of Enhanced Electromagnetic Fields in Plasmonic Nanostructures. , 2015, , 119-158.		0
24	3D Nanostar Dimers with a Subâ€10â€nm Gap for Singleâ€/Fewâ€Molecule Surfaceâ€Enhanced Raman Scattering. Advanced Materials, 2014, 26, 2353-2358.	21.0	263
25	Plasmonic Nanostructures: 3D Nanostar Dimers with a Sub-10-nm Gap for Single-/Few-Molecule Surface-Enhanced Raman Scattering (Adv. Mater. 15/2014). Advanced Materials, 2014, 26, 2352-2352.	21.0	1
26	Bimetallic 3D Nanostar Dimers in Ring Cavities: Recyclable and Robust Surface-Enhanced Raman Scattering Substrates for Signal Detection from Few Molecules. ACS Nano, 2014, 8, 7986-7994.	14.6	101
27	Plasmon resonance tuning in metal nanostars for surface enhanced Raman scattering. Nanotechnology, 2014, 25, 235303.	2.6	49
28	3D plasmonic nanostructures as building blocks for ultrasensitive Raman spectroscopy. , 2014, , .		0
29	Plasmonic Nanostructures for Nanoscale Energy Delivery and Biosensing: Design Fabrication and Characterization. , 2014, , 451-502.		0
30	Metal Structures as Advanced Materials in Nanotechnology. , 2014, , 615-669.		1
31	Terahertz Dipole Nanoantenna Arrays: Resonance Characteristics. Plasmonics, 2013, 8, 133-138.	3.4	35
32	Plasmon based biosensor for distinguishing different peptides mutation states. Scientific Reports, 2013, 3, 1792.	3.3	68
33	Plasmonic nanostars for SERS application. Microelectronic Engineering, 2013, 111, 247-250.	2.4	19
34	Design and top-down fabrication of metallic L-shape gap nanoantennas supporting plasmon-polariton modes. Microelectronic Engineering, 2013, 111, 91-95.	2.4	7
35	Interplay between electric and magnetic effect in adiabatic polaritonic systems. Optics Express, 2013, 21, 7538.	3.4	19
36	Frontispiece: Nanoplasmonic structures for biophotonic applications: SERS overview. Annalen Der Physik, 2012, 524, 619-619.	2.4	0

#	Article	IF	Citations
37	Optimization and characterization of Au cuboid nanostructures as a SERS device for sensing applications. Microelectronic Engineering, 2012, 97, 189-192.	2.4	19
38	Fabrication and characterization of a nanoantenna-based Raman device for ultrasensitive spectroscopic applications. Microelectronic Engineering, 2012, 98, 424-427.	2.4	15
39	Nanoplasmonic structures for biophotonic applications: SERS overview. Annalen Der Physik, 2012, 524, 620-636.	2.4	18
40	Terahertz Resonant Dipole Nanoantennas. , 2012, , .		0
41	Nanoparticles and Nanostructures for Biophotonic Applications. , 0, , .		1