Gururaj V Naik

List of Publications by Year in Descending Order

50 papers	4,685 citations	24 h-index	66 g-index
66 ext. papers	5,445 ext. citations	7.4 avg, IF	5.84 L-index

#	Paper	IF	Citations
50	Non-Hermitian metasurface with non-trivial topology. *Nanophotonics*, **2022**, 11, 1159-1165	6.3	2
49	Reorganization of CDW stacking in 1T-TaS2 by an in-plane electrical bias. *APL Materials*, **2021**, 9, 111103	5.7	0
48	3D Imaging Using Extreme Dispersion in Optical Metasurfaces. *ACS Photonics*, **2021**, 8, 1421-1429	6.3	6
47	Light-induced reorganization of charge density wave stacking in 1T-TaS2. *Applied Physics Letters*, **2021**, 118, 253104	3.4	3
46	Optimum selective emitters for efficient thermophotovoltaic conversion. *Applied Physics Letters*, **2020**, 116, 023903	3.4	8
45	Macroscopically aligned carbon nanotubes for flexible and high-temperature electronics, optoelectronics, and thermoelectrics. *Journal Physics D: Applied Physics*, **2020**, 53, 063001	3	8
44	Large Optical Tunability from Charge Density Waves in 1T-TaS under Incoherent Illumination. *Nano Letters*, **2020**, 20, 7868-7873	11.5	4
43	Macroscopically Aligned Carbon Nanotubes as a Refractory Platform for Hyperbolic Thermal Emitters. *ACS Photonics*, **2019**, 6, 1602-1609	6.3	20
42	Non-Hermitian Selective Thermal Emitters using Metal-Semiconductor Hybrid Resonators. *Advanced Materials*, **2019**, 31, e1904154	24	7
41	In-plane electrical bias tunable optical properties of 1T-TaS2 [Invited]. *Optical Materials Express*, **2019**, 9, 497	2.6	8
40	Wavelength-Dependent Optical Force Imaging of Bimetallic Al-Au Heterodimers. *Nano Letters*, **2018**, 18, 2040-2046	11.5	34
39	Chemically Responsive Elastomers Exhibiting Unity-Order Refractive Index Modulation. *Advanced Materials*, **2018**, 30, 1703912	24	15
38	Semiconductors for high selectivity thermal emitters. *Journal of Optics (United Kingdom)*, **2018**, 20, 084001	2.7	4
37	Equilibration of Photogenerated Charge Carriers in Plasmonic Nanoparticles. *Journal of Physical Chemistry C*, **2018**, 122, 23631-23638	3.8	3
36	Alternative Plasmonic Materials **2018**, 252-264		1
35	Temperature-dependent optical properties of titanium nitride. *Applied Physics Letters*, **2017**, 110, 101901	3.4	59
34	Hot-Carrier-Mediated Photon Upconversion in Metal-Decorated Quantum Wells. *Nano Letters*, **2017**, 17, 4583-4587	11.5	25

33	Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. *Optica*, **2016**, 3, 339	8.6	112
32	Fully CMOS-compatible titanium nitride nanoantennas. *Applied Physics Letters*, **2016**, 108, 051110	3.4	68
31	Ultrabroadband terahertz conductivity of highly doped ZnO and ITO. *Optical Materials Express*, **2015**, 5, 566	2.6	27
30	Development of epitaxial AlxSc1−xN for artificially structured metal/semiconductor superlattice metamaterials. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 251-259	1.3	40
29	Photon upconversion with hot carriers in plasmonic systems. *Applied Physics Letters*, **2015**, 107, 133902	3.4	28
28	Epitaxial superlattices with titanium nitride as a plasmonic component for optical hyperbolic metamaterials. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7546-51	11.5	164
27	TiN/(Al,Sc)N metal/dielectric superlattices and multilayers as hyperbolic metamaterials in the visible spectral range. *Physical Review B*, **2014**, 90,	3.3	41
26	Alternative Plasmonic Materials. *Handbook of Surface Science*, **2014**, 4, 189-221		7
25	CMOS Compatible Ultra-Compact Modulator **2014**,		1
24	Optical absorption of hyperbolic metamaterial with stochastic surfaces. *Optics Express*, **2014**, 22, 8893-901	3.5	14
23	Refractory plasmonics with titanium nitride: broadband metamaterial absorber. *Advanced Materials* , **2014**, 26, 7959-65	24	432
22	Plasmonic modulator using CMOS-compatible material platform **2014**,		1
21	Alternative Plasmonic Materials: Alternative Plasmonic Materials: Beyond Gold and Silver (Adv. Mater. 24/2013). *Advanced Materials*, **2013**, 25, 3258-3258	24	8
20	Electronic and optical properties of ScN and (Sc,Mn)N thin films deposited by reactive DC-magnetron sputtering. *Journal of Applied Physics*, **2013**, 114, 063519	2.5	38
19	Optical Properties of Gallium-Doped Zinc Oxide—A Low-Loss Plasmonic Material: First-Principles Theory and Experiment. *Physical Review X*, **2013**, 3,	9.1	40
18	Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). *Nano Letters*, **2013**, 13, 2857-63	11.5	153
17	Alternative plasmonic materials: beyond gold and silver. *Advanced Materials*, **2013**, 25, 3264-94	24	1395
16	Local heating with lithographically fabricated plasmonic titanium nitride nanoparticles. *Nano Letters*, **2013**, 13, 6078-83	11.5	199

15	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths [erratum]. *Optical Materials Express*, **2013**, 3, 1658	2.6	5
14	Towards CMOS-compatible nanophotonics: ultra-compact modulators using alternative plasmonic materials. *Optics Express*, **2013**, 21, 27326-37	3.3	98
13	Plasmonic Resonances in Nanostructured Transparent Conducting Oxide Films. *IEEE Journal of Selected Topics in Quantum Electronics*, **2013**, 19, 4601907-4601907	3.8	68
12	Nanostructured Transparent Conductive Oxide Films for Plasmonic Applications **2013**,		2
11	Metal Nitrides for Plasmonic Applications **2012**,		2
10	Demonstration of Al:ZnO as a plasmonic component for near-infrared metamaterials. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 8834-8	11.5	252
9	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. *Optical Materials Express*, **2012**, 2, 478	2.6	468
8	Nitrides as alternative materials for localized surface plasmon applications **2012**,		2
7	Oxides and nitrides as alternative plasmonic materials in the optical range [Invited]. *Optical Materials Express*, **2011**, 1, 1090	2.6	586
6	A comparative study of semiconductor-based plasmonic metamaterials. *Metamaterials*, **2011**, 5, 1-7		87
5	Poly-ols Based Sol□Gel Synthesis of Zinc Oxide Thin Films. *Journal of the Electrochemical Society*, **2011**, 158, H85	3.9	2
4	Semiconductor plasmonic metamaterials for near-infrared and telecommunication wavelength **2010**,		4
3	In-situ power monitoring scheme and its application in dynamic voltage and threshold scaling for digital CMOS integrated circuits **2010**,		6
2	Semiconductors for plasmonics and metamaterials. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 295-297	2.5	94
1	Non-Hermitian metasurfaces for the best of plasmonics and dielectrics. *Optical Materials Express*,	2.6	5