

Gururaj V Naik

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4215478/gururaj-v-naik-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Alternative plasmonic materials: beyond gold and silver. <i>Advanced Materials</i> , 2013 , 25, 3264-94	24	1395
49	Oxides and nitrides as alternative plasmonic materials in the optical range [Invited]. <i>Optical Materials Express</i> , 2011 , 1, 1090	2.6	586
48	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. <i>Optical Materials Express</i> , 2012 , 2, 478	2.6	468
47	Refractory plasmonics with titanium nitride: broadband metamaterial absorber. <i>Advanced Materials</i> , 2014 , 26, 7959-65	24	432
46	Demonstration of Al:ZnO as a plasmonic component for near-infrared metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8834-8	11.5	252
45	Local heating with lithographically fabricated plasmonic titanium nitride nanoparticles. <i>Nano Letters</i> , 2013 , 13, 6078-83	11.5	199
44	Epitaxial superlattices with titanium nitride as a plasmonic component for optical hyperbolic metamaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7546-51	11.5	164
43	Shape-dependent plasmonic response and directed self-assembly in a new semiconductor building block, indium-doped cadmium oxide (ICO). <i>Nano Letters</i> , 2013 , 13, 2857-63	11.5	153
42	Role of epsilon-near-zero substrates in the optical response of plasmonic antennas. <i>Optica</i> , 2016 , 3, 339-8.6	11.2	112
41	Towards CMOS-compatible nanophotonics: ultra-compact modulators using alternative plasmonic materials. <i>Optics Express</i> , 2013 , 21, 27326-37	3.3	98
40	Semiconductors for plasmonics and metamaterials. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 295-297	2.5	94
39	A comparative study of semiconductor-based plasmonic metamaterials. <i>Metamaterials</i> , 2011 , 5, 1-7		87
38	Plasmonic Resonances in Nanostructured Transparent Conducting Oxide Films. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4601907-4601907	3.8	68
37	Fully CMOS-compatible titanium nitride nanoantennas. <i>Applied Physics Letters</i> , 2016 , 108, 051110	3.4	68
36	Temperature-dependent optical properties of titanium nitride. <i>Applied Physics Letters</i> , 2017 , 110, 101903.4	3.4	59
35	TiN/(Al,Sc)N metal/dielectric superlattices and multilayers as hyperbolic metamaterials in the visible spectral range. <i>Physical Review B</i> , 2014 , 90,	3.3	41
34	Development of epitaxial Al _x Sc _{1-x} N for artificially structured metal/semiconductor superlattice metamaterials. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 251-259	1.3	40

33	Optical Properties of Gallium-Doped Zinc Oxide: A Low-Loss Plasmonic Material: First-Principles Theory and Experiment. <i>Physical Review X</i> , 2013 , 3,	9.1	40
32	Electronic and optical properties of ScN and (Sc,Mn)N thin films deposited by reactive DC-magnetron sputtering. <i>Journal of Applied Physics</i> , 2013 , 114, 063519	2.5	38
31	Wavelength-Dependent Optical Force Imaging of Bimetallic Al-Au Heterodimers. <i>Nano Letters</i> , 2018 , 18, 2040-2046	11.5	34
30	Photon upconversion with hot carriers in plasmonic systems. <i>Applied Physics Letters</i> , 2015 , 107, 133902	3.4	28
29	Ultrabroadband terahertz conductivity of highly doped ZnO and ITO. <i>Optical Materials Express</i> , 2015 , 5, 566	2.6	27
28	Hot-Carrier-Mediated Photon Upconversion in Metal-Decorated Quantum Wells. <i>Nano Letters</i> , 2017 , 17, 4583-4587	11.5	25
27	Macroscopically Aligned Carbon Nanotubes as a Refractory Platform for Hyperbolic Thermal Emitters. <i>ACS Photonics</i> , 2019 , 6, 1602-1609	6.3	20
26	Chemically Responsive Elastomers Exhibiting Unity-Order Refractive Index Modulation. <i>Advanced Materials</i> , 2018 , 30, 1703912	24	15
25	Optical absorption of hyperbolic metamaterial with stochastic surfaces. <i>Optics Express</i> , 2014 , 22, 8893-9015	9.5	14
24	Optimum selective emitters for efficient thermophotovoltaic conversion. <i>Applied Physics Letters</i> , 2020 , 116, 023903	3.4	8
23	Alternative Plasmonic Materials: Alternative Plasmonic Materials: Beyond Gold and Silver (Adv. Mater. 24/2013). <i>Advanced Materials</i> , 2013 , 25, 3258-3258	24	8
22	In-plane electrical bias tunable optical properties of 1T-TaS ₂ [Invited]. <i>Optical Materials Express</i> , 2019 , 9, 497	2.6	8
21	Macroscopically aligned carbon nanotubes for flexible and high-temperature electronics, optoelectronics, and thermoelectrics. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 063001	3	8
20	Non-Hermitian Selective Thermal Emitters using Metal-Semiconductor Hybrid Resonators. <i>Advanced Materials</i> , 2019 , 31, e1904154	24	7
19	Alternative Plasmonic Materials. <i>Handbook of Surface Science</i> , 2014 , 4, 189-221		7
18	In-situ power monitoring scheme and its application in dynamic voltage and threshold scaling for digital CMOS integrated circuits 2010 ,		6
17	3D Imaging Using Extreme Dispersion in Optical Metasurfaces. <i>ACS Photonics</i> , 2021 , 8, 1421-1429	6.3	6
16	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths [erratum]. <i>Optical Materials Express</i> , 2013 , 3, 1658	2.6	5

15	Non-Hermitian metasurfaces for the best of plasmonics and dielectrics. <i>Optical Materials Express</i> ,	2.6	5
14	Semiconductors for high selectivity thermal emitters. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 084001	1.7	4
13	Semiconductor plasmonic metamaterials for near-infrared and telecommunication wavelength 2010 ,		4
12	Large Optical Tunability from Charge Density Waves in 1T-TaS under Incoherent Illumination. <i>Nano Letters</i> , 2020 , 20, 7868-7873	11.5	4
11	Light-induced reorganization of charge density wave stacking in 1T-TaS ₂ . <i>Applied Physics Letters</i> , 2021 , 118, 253104	3.4	3
10	Equilibration of Photogenerated Charge Carriers in Plasmonic [email[protected]] Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23631-23638	3.8	3
9	Metal Nitrides for Plasmonic Applications 2012 ,		2
8	Polyols Based Sol-Gel Synthesis of Zinc Oxide Thin Films. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H85	3.9	2
7	Nanostructured Transparent Conductive Oxide Films for Plasmonic Applications 2013 ,		2
6	Nitrides as alternative materials for localized surface plasmon applications 2012 ,		2
5	Non-Hermitian metasurface with non-trivial topology. <i>Nanophotonics</i> , 2022 , 11, 1159-1165	6.3	2
4	CMOS Compatible Ultra-Compact Modulator 2014 ,		1
3	Plasmonic modulator using CMOS-compatible material platform 2014 ,		1
2	Alternative Plasmonic Materials 2018 , 252-264		1
1	Reorganization of CDW stacking in 1T-TaS ₂ by an in-plane electrical bias. <i>APL Materials</i> , 2021 , 9, 111103	5.7	0