N T R N Kumara

List of Publications by Year
in descending order

32 papers	1,217 citations	361296 20 h-index	454834 30 g-index
32 all docs	32 docs citations	32 times ranked	1074 citing authors

#	Article	IF	Citations
1	Photocatalytic Hydrogen Gas Production from NH3 and Alkylamine: Route to Zero Carbon Emission Energy. Catalysis Letters, 2023, 153, 1013-1023.	1.4	1
2	Machine learning approaches to predict adsorption capacity of Azolla pinnata in the removal of methylene blue. Journal of the Taiwan Institute of Chemical Engineers, 2022, 132, 104134.	2.7	57
3	The Use of Gigantochloa Bamboo-Derived Biochar for the Removal of Methylene Blue from Aqueous Solution. Adsorption Science and Technology, 2022, 2022, .	1.5	36
4	Mid infrared sensing structure based on a metalâ€“insulatorâ€“metal waveguides with a triangular-shaped resonator. Optics Communications, 2022, 516, 128282.	1.0	14
5	Theoretical Study of CO Adsorption Interactions with Cr-Doped Tungsten Oxide/Graphene Composites for Gas Sensor Application. ACS Omega, 2022, 7, 528-539.	1.6	8
6	Effect of Doping Rare-Earth Element on the Structural, Morphological, Optical and Photocatalytic Properties of ZnO Nanoparticles in the Degradation of Methylene Blue Dye. IOP Conference Series: Materials Science and Engineering, 2021, 1127, 012004.	0.3	5
7	Improved Refractive Index-Sensing Performance of Multimode Fano-Resonance-Based Metal-Insulator-Metal Nanostructures. Nanomaterials, 2021, 11, 2097.	1.9	30
8	The Removal of Ruthenium-Based Complexes N3 Dye from DSSC Wastewater Using Copper Impregnated KOH-Activated Bamboo Charcoal. Water, Air, and Soil Pollution, 2021, 232, 1.	1.1	17
9	A Theoretical Insight of Cr Dopant in Tungsten Oxide for Gas Sensor Application. Materials Today Communications, 2021, 28, 102508.	0.9	6
10	Significantly enhanced coupling effect and gap plasmon resonance in a MIM-cavity based sensing structure. Scientific Reports, 2021, 11, 18515.	1.6	45
11	Synergistic effect of TiO2 size on activated carbon composites for ruthenium N-3 dye adsorption and photocatalytic degradation in wastewater treatment. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100567.	1.7	1
12	Copper modified activated bamboo charcoal to enhance adsorption of heavy metals from industrial wastewater. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100562.	1.7	18
13	Ultrahigh Sensitivity of a Plasmonic Pressure Sensor with a Compact Size. Nanomaterials, 2021, 11, 3147.	1.9	19
14	Highly Sensitive and Tunable Plasmonic Sensor Based on a Nanoring Resonator with Silver Nanorods. Nanomaterials, 2020, 10, 1399.	1.9	65
15	Ultrawide Bandgap and High Sensitivity of a Plasmonic Metal-Insulator-Metal Waveguide Filter with Cavity and Baffles. Nanomaterials, 2020, 10, 2030.	1.9	59
16	Perfect Dual-Band Absorber Based on Plasmonic Effect with the Cross-Hair/Nanorod Combination. Nanomaterials, 2020, 10, 493.	1.9	66
17	Enhanced Carbon monoxide-sensing properties of Chromium-doped ZnO nanostructures. Scientific Reports, 2019, 9, 9207.	1.6	50
18	Ultra-High Refractive Index Sensing Structure Based on a Metal-Insulator-Metal Waveguide-Coupled T-Shape Cavity with Metal Nanorod Defects. Nanomaterials, 2019, 9, 1433.	1.9	65

#	Article	IF	Citations
19	Fabrication and Characterization of a Metallicâ€“Dielectric Nanorod Array by Nanosphere Lithography for Plasmonic Sensing Application. Nanomaterials, 2019, 9, 1691.	1.9	80
20	Simultaneous realization of high sensing sensitivity and tunability in plasmonic nanostructures arrays. Scientific Reports, 2017, 7, 16817.	1.6	60
21	Plasmonic spectrum on 1D and 2D periodic arrays of rod-shape metal nanoparticle pairs with different core patterns for biosensor and solar cell applications. Journal of Optics (United Kingdom), 2016, 18, 115003.	1.0	47
22	Tailoring surface plasmon resonance and dipole cavity plasmon modes of scattering cross section spectra on the single solid-gold/gold-shell nanorod. Journal of Applied Physics, 2016, 120, .	1.1	49
23	Potential natural sensitizers extracted from the skin of Canarium odontophyllum fruits for dye-sensitized solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 596-602.	2.0	50
24	Equilibrium Isotherm Studies of Adsorption of Pigments Extracted from Kuduk-kuduk (<i>Melastoma) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	79
25	Impacts of Temperature on the Stability of Tropical Plant Pigments as Sensitizers for Dye Sensitized Solar Cells. Journal of Biophysics, 2014, 2014, 1-8.	0.8	35
26	Study of the Enhancement of Cell Performance of Dye Sensitized Solar Cells Sensitized With Nephelium lappaceum (F: Sapindaceae). Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	31
27	DFT/TDDFT and Experimental Studies of Natural Pigments Extracted from Black Tea Waste for DSSC Application. International Journal of Photoenergy, 2013, 2013, 1-8.	1.4	26
28	Kinetics of photocurrent generation and an efficient charge separation of a dye-sensitized n-Cu₂O/p-CuSCN junction photoelectrode in a solid-state photovoltaic cell. Semiconductor Science and Technology, 2010, 25, 115007.	1.0	2
29	CO2 gas sensitivity of sputtered zinc oxide thin films. Bulletin of Materials Science, 2007, 30, 113-116.	0.8	44
30	Sputtered copper oxide (CuO) thin films for gas sensor devices. Journal of Physics Condensed Matter, 2006, 18, 2417-2420.	0.7	124
31	Ruthenium Dye (N3) Removal from Simulated Wastewater Using Bamboo Charcoal and Activated Bamboo Charcoal. Key Engineering Materials, 0, 765, 92-98.	0.4	10
32	Dynamic Light Scattering and Zeta Potential Studies of Ceria Nanoparticles. Solid State Phenomena, 0, 278, 112-120.	0.3	18