Lignesh Durai

List of Publications by Year in Descending Order

31 papers	318 citations	10 h-index	17 g-index
33 ext. papers	479 ext. citations	4.6 avg, IF	4.8 L-index

#	Paper	IF	Citations
31	Stripping voltammetry and chemometrics assisted ultra-selective, simultaneous detection of trace amounts of heavy metal ions in aqua and blood serum samples. *Sensors and Actuators Reports*, **2022**, 100097	4.7	0
30	A non-noble, low cost, multicomponent electrocatalyst based on nickel oxide decorated AC nanosheets and PPy nanowires for the direct methanol oxidation reaction. *International Journal of Hydrogen Energy*, **2021**, 47, 3099-3099	6.7	2
29	3D, large-area NiCoO microflowers as a highly stable substrate for rapid and trace level detection of flutamide in biofluids via surface-enhanced Raman scattering (SERS). *Mikrochimica Acta*, **2021**, 188, 371	5.8	2
28	Highly selective trace level detection of DNA damage biomarker using iron-based MAX compound modified screen-printed carbon electrode using differential pulse voltammetry. *Sensors and Actuators Reports*, **2021**, 3, 100057	4.7	0
27	Record-High Responsivity and Detectivity of a Flexible Deep-Ultraviolet Photodetector Based on Solid State-Assisted Synthesized hBN Nanosheets. *ACS Applied Electronic Materials*, **2021**, 3, 1162-1169	4	13
26	Silica embedded carbon nanosheets derived from biomass acorn cupule for non-enzymatic, label-free, and wide range detection of □acid glycoprotein in biofluids. *Analytica Chimica Acta*, **2021**, 1169, 338598	6.6	1
25	Vertically Aligned Few-Layer Crumpled MoS2 Hybrid Nanostructure on Porous Ni Foam toward Promising Binder-Free Methanol Electro-Oxidation Application. *Energy & Fuels*, **2021**, 35, 10169-10180	4.1	5
24	Highly Stable NiCoZn Ternary Mixed-Metal-Oxide Nanorods as a Low-Cost, Non-Noble Electrocatalyst for Methanol Electro-Oxidation in Alkaline Medium. *Energy & Fuels*, **2021**, 35, 12507-12515	4.1	3
23	One-Pot Synthesis of rGO Supported Nb2O5 Nanospheres for Ultra-Selective Sensing of Bisphenol a and Hydrazine in Water Samples. *IEEE Sensors Journal*, **2021**, 21, 4152-4159	4	1
22	Facile synthesis of biomass-derived sulfonated carbon microspheres and nanosheets for the electrochemical detection of glutathione in biological samples. *Materials Letters*, **2021**, 282, 128683	3.3	5
21	Ultra-Selective and Wide Range Detection of D-Mannitol in Human Blood Samples via Differential Pulse Voltammetry Technique Using MgAl2O4 Perovskite Modified Electrode. *IEEE Sensors Journal*, **2021**, 21, 5736-5742	4	1
20	Highly Sensitive Electrochemical Impedance- Based Biosensor for Label-Free and Wide Range Detection of Fibrinogen Using Hydrothermally Grown AlFeO3 Nanospheres Modified Electrode. *IEEE Sensors Journal*, **2021**, 21, 4160-4166	4	2
19	One-pot hydrothermal synthesis of NiCoZn a ternary mixed metal oxide nanorod based electrochemical sensor for trace level recognition of dopamine in biofluids. *Materials Letters*, **2021**, 298, 130044	3.3	2
18	Simultaneous sensing of copper, lead, cadmium and mercury traces in human blood serum using orthorhombic phase aluminium ferrite. *Materials Science and Engineering C*, **2020**, 112, 110865	8.3	10
17	Ultra-selective, trace level detection of As3+ ions in blood samples using PANI coated BiVO modified SPCE via differential pulse anode stripping voltammetry. *Materials Science and Engineering C*, **2020**, 111, 110806	8.3	14
16	One Pot Hydrothermal Synthesis of Large Area Nano Cube Like ZnSnO3 Perovskite for Simultaneous Sensing of Uric Acid and Dopamine Using Differential Pulse Voltammetry. *IEEE Sensors Journal*, **2020**, 20, 13212-13219	4	2
15	Thermal decomposition assisted one-step synthesis of high surface area NiCoP nanospheres for simultaneous sensing of Lead, Mercury and Cadmium ions in groundwater samples. *Journal of Electroanalytical Chemistry*, **2020**, 861, 113937	4.1	6

14	One-step solid-state reaction synthesis of NaFeO2 nanopebble as high capacity cathode material for sodium ion batteries. *Materials Letters*, **2020**, 270, 127739	3.3	5
13	One-step solvothermal synthesis of nanoflake-nanorod WS hybrid for non-enzymatic detection of uric acid and quercetin in blood serum. *Materials Science and Engineering C*, **2020**, 107, 110217	8.3	27
12	Facile synthesis of large area pebble-like NaFeO perovskite for simultaneous sensing of dopamine, uric acid, xanthine and hypoxanthine in human blood. *Materials Science and Engineering C*, **2020**, 109, 110631	8.3	26
11	Highly selective trace level detection of Atrazine in human blood samples using lead-free double perovskite Al2NiCoO5 modified electrode via differential pulse voltammetry. *Sensors and Actuators B: Chemical*, **2020**, 325, 128792	8.5	8
10	Label-free wide range electrochemical detection of carotene using solid state assisted synthesis of hexagonal boron nitride nanosheets. *New Journal of Chemistry*, **2020**, 44, 15919-15927	3.6	1
9	Polyaniline Sheathed Black Phosphorous: A Novel, Advanced Platform for Electrochemical Sensing Applications. *Electroanalysis*, **2020**, 32, 238-247	3	9
8	Facile Fabrication of P(Electrodeposition)/N(Solvothermal) 2D-WS2-Homojunction Based High Performance Photo Responsive, Strain Modulated Piezo-Phototronic Diode. *ChemNanoMat*, **2019**, 5, 1521-1530	3.5	18
7	Electrochemical properties of Na0.5Bi0.5TiO3 perovskite as an anode material for sodium ion batteries. *Journal of Materials Science*, **2019**, 54, 13236-13246	4.3	13
6	A facile, solid-state reaction assisted synthesis of a berry-like NaNbO3 perovskite structure for binder-free, highly selective sensing of dopamine in blood samples. *New Journal of Chemistry*, **2019**, 43, 11994-12003	3.6	30
5	Facile in-situ preparation of few-layered reduced graphene oxide hiobium pentoxide composite for non-enzymatic glucose monitoring **2018**,		3
4	Electrochemical properties of BiFeO3 nanoparticles: Anode material for sodium-ion battery application. *Materials Science in Semiconductor Processing*, **2017**, 68, 165-171	4.3	18
3	A Simple Approach to Stepwise Synthesis of Graphene Oxide Nanomaterial. *Journal of Nanomedicine & Nanotechnology*, **2015**, 06,	1.9	88
2	A low-cost and facile electrochemical sensor for the trace-level recognition of flutamide in biofluids using large-area bimetallic NiCo2O4 micro flowers. *New Journal of Chemistry*,	3.6	2
1	A Wearable PVA Film Supported TiO 2 Nanoparticles Decorated NaNbO 3 Nanoflakes-Based SERS Sensor for Simultaneous Detection of Metabolites and Biomolecules in Human Sweat Samples. *Advanced Materials Interfaces*,2200146	4.6	1