

Nitul Kakati

List of Publications by Year in descending order

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35
papers

1,558
citations

471509
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38
all docs

38
docs citations

38
times ranked

2502
citing authors

#	ARTICLE	IF	CITATIONS
1	Anode Catalysts for Direct Methanol Fuel Cells in Acidic Media: Do We Have Any Alternative for Pt or Pt-Ru?. Chemical Reviews, 2014, 114, 12397-12429.	47.7	585
2	Thickness dependency of sol-gel derived ZnO thin films on gas sensing behaviors. Thin Solid Films, 2010, 519, 494-498.	1.8	89
3	Where do poly(vinyl alcohol) based membranes stand in relation to Nafion® for direct methanol fuel cell applications?. Journal of Power Sources, 2012, 216, 48-66.	7.8	87
4	Corrosion and electrical properties of CrN- and TiN-coated 316L stainless steel used as bipolar plates for polymer electrolyte membrane fuel cells. Thin Solid Films, 2013, 529, 374-379.	1.8	87
5	Hollow Sodium Nickel Fluoride Nanocubes Deposited MWCNT as An Efficient Electrocatalyst for Urea Oxidation. Electrochimica Acta, 2017, 240, 175-185.	5.2	69
6	Nafion® based hybrid composite membrane containing GO and dihydrogen phosphate functionalized ionic liquid for high temperature polymer electrolyte membrane fuel cell. Composites Science and Technology, 2018, 155, 189-196.	7.8	69
7	Hydrothermal synthesis of PtRu nanoparticles supported on graphene sheets for methanol oxidation in direct methanol fuel cell. Materials Letters, 2011, 65, 3281-3284.	2.6	63
8	PVA nano composite membrane for DMFC application. Solid State Ionics, 2011, 201, 21-26.	2.7	47
9	Core shell like behavior of PdMo nanoparticles on multiwall carbon nanotubes and their methanol oxidation activity in alkaline medium. International Journal of Hydrogen Energy, 2012, 37, 19055-19064.	7.1	46
10	An approach of balancing the ionic conductivity and mechanical properties of PVA based nanocomposite membrane for DMFC by various crosslinking agents with ionic liquid. International Journal of Hydrogen Energy, 2015, 40, 7114-7123.	7.1	45
11	Hydrothermal synthesis of PtRu on CNT/SnO2 composite as anode catalyst for methanol oxidation fuel cell. Journal of Alloys and Compounds, 2011, 509, 5617-5622.	5.5	41
12	Nanocomposite-carbon coated at low-temperature: A new coating material for metallic bipolar plates of polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2013, 38, 14284-14294.	7.1	41
13	Corrosion and electrical properties of carbon/ceramic multilayer coated on stainless steel bipolar plates. Surface and Coatings Technology, 2016, 303, 162-169.	4.8	37
14	Study of methanol oxidation of hydrothermally synthesized PtRuMo on multi wall carbon nanotubes. Applied Surface Science, 2011, 257, 8433-8437.	6.1	27
15	Synthesis of ZnNiSnO 4 nanorods by a simple hydrothermal method as a new anode material for Li ion battery. Journal of Alloys and Compounds, 2017, 711, 387-394.	5.5	23
16	Sensitivity Enhancement of ZnO Nanorod Gas Sensors with Surface Modification by an InSb Thin Film. Japanese Journal of Applied Physics, 2009, 48, 105002.	1.5	20
17	Water Soluble Sodium Sulfate Nanorods as a Versatile Template for the Designing of Copper Sulfide Nanotubes. Journal of Nanoscience and Nanotechnology, 2014, 14, 4455-4461.	0.9	18
18	A Comprehensive Review of Nanomaterials Developed Using Electrophoresis Process for High-Efficiency Energy Conversion and Storage Systems. Energies, 2018, 11, 3122.	3.1	18

#	ARTICLE	IF	CITATIONS
19	Imidazolium functionalized poly(vinyl chloride-co-vinyl acetate)-based anion exchange membrane. International Journal of Hydrogen Energy, 2016, 41, 5776-5782.	7.1	17
20	Ru decorated Pt nanoparticles by a modified polyol process for enhanced catalytic activity for methanol oxidation. Surface Science, 2012, 606, 1633-1637.	1.9	16
21	Work function effects of ZnO thin film for acetone gas detection. Ceramics International, 2012, 38, S653-S656.	4.8	16
22	Fluorination of multiwall carbon nanotubes by a mild fluorinating reagent HPF6. Journal of Fluorine Chemistry, 2012, 135, 362-366.	1.7	16
23	One-pot hydrothermal synthesis of heteroatom co-doped with fluorine on reduced graphene oxide for enhanced ORR activity and stability in alkaline media. Materials Chemistry and Physics, 2019, 236, 121804.	4.0	16
24	Silver Nanoparticles in Polyacrylamide and Hyperbranched Polyamine Matrix. Journal of Macromolecular Science - Pure and Applied Chemistry, 2008, 45, 658-663.	2.2	15
25	Insights into the Ni/C-Based Thin-Film Catalyst Layer Design for Urea Oxidation Reaction in a Three-Electrode System. ACS Applied Energy Materials, 2021, 4, 4224-4233.	5.1	14
26	Data on fuel cell performance of Nafion® based hybrid composite membrane containing GO and dihydrogen phosphate functionalized ionic liquid at 70 °C under anhydrous condition. Data in Brief, 2018, 16, 905-907.	1.0	9
27	Hydrothermal Synthesis of Pt-Ru-W Anode Catalyst Supported on Multi-Walled Carbon Nanotubes for Methanol Oxidation Fuel Cell. Japanese Journal of Applied Physics, 2010, 49, 115101.	1.5	6
28	Proton-conducting membrane based on epoxy resin-poly(vinyl alcohol)-sulfosuccinic acid blend and its nanocomposite with sulfonated multiwall carbon nanotubes for fuel-cell application. Journal of the Korean Physical Society, 2016, 68, 311-316.	0.7	6
29	A multiphysics model of a proton exchange membrane acid-alkaline electrolyzer. Energy Conversion and Management, 2022, 267, 115829.	9.2	5
30	Characteristics of Li-P-W-O-N electrolyte for all solid state electrochromic devices. Electrochimica Acta, 2011, 56, 9741-9745.	5.2	4
31	Ohmic contact between ZnO and Pt by InSb layer in a ZnO Schottky diode. Applied Physics Letters, 2011, 98, 142108.	3.3	2
32	A new approach: Li2S-P2S5 thin-films prepared by thermal evaporation as solid electrolytes. Journal of the Korean Physical Society, 2016, 69, 617-622.	0.7	1
33	Ionic-liquid-assisted synthesis of core-shell RuNi@Pt nanoparticles on multiwall carbon nanotubes for methanol oxidation. Journal of the Korean Physical Society, 2016, 68, 179-182.	0.7	1
34	Work Function Effects of Nano Structured ZnO Thin Film on the Acetone Gas Sensitivity. Materials Research Society Symposia Proceedings, 2009, 1174, 86.	0.1	0
35	The Influence of Catalyst Ink on the Urea Oxidation Reaction Activity Evaluated in a Three-Electrode System. ECS Meeting Abstracts, 2019, , .	0.0	0