

Bhalchandra A Kakade

List of Publications by Citations

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68

papers

1,732

citations

23

h-index

40

g-index

70

ext. papers

1,989

ext. citations

5.7

avg, IF

5.15

L-index

#	Paper	IF	Citations
68	Polymer electrolyte fuel cells using nafion-based composite membranes with functionalized carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2653-6	16.4	217
67	Electric field induced, superhydrophobic to superhydrophilic switching in multiwalled carbon nanotube papers. <i>Nano Letters</i> , 2008 , 8, 2693-6	11.5	108
66	Invertase inhibition based electrochemical sensor for the detection of heavy metal ions in aqueous system: Application of ultra-microelectrode to enhance sucrose biosensor's sensitivity. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 657-64	11.8	102
65	Tuning the Wetting Properties of Multiwalled Carbon Nanotubes by Surface Functionalization. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3183-3186	3.8	84
64	Highly Active Bimetallic PdPt and CoPt Nanocrystals for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7464-7470	3.8	69
63	Solvent-Assisted One-Pot Synthesis and Self-Assembly of 4-Aminothiophenol-Capped Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13280-13286	3.4	66
62	An efficient route towards the covalent functionalization of single walled carbon nanotubes. <i>Applied Surface Science</i> , 2008 , 254, 4936-4943	6.7	65
61	Synergistically Enhanced Electrocatalytic Performance of an N-Doped Graphene Quantum Dot-Decorated 3D MoS-Graphene Nanohybrid for Oxygen Reduction Reaction. <i>ACS Omega</i> , 2016 , 1, 971-980	3.8	62
60	Carbon Nanotube/Boron Nitride Nanocomposite as a Significant Bifunctional Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions. <i>Chemistry - A European Journal</i> , 2017 , 23, 676-683	4.8	48
59	Enhanced activity and durability for the electroreduction of oxygen at a chemically ordered intermetallic PtFeCo catalyst. <i>RSC Advances</i> , 2014 , 4, 27510	3.7	46
58	Three dimensional nanocomposite of reduced graphene oxide and hexagonal boron nitride as an efficient metal-free catalyst for oxygen electroreduction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4506-4515	12.4	45
57	Synthesis of 3D graphite oxide-exfoliated carbon nanotube carbon composite and its application as catalyst support for fuel cells. <i>Journal of Power Sources</i> , 2014 , 260, 338-348	8.9	42
56	Photoluminescence studies of Eu ³⁺ doped Y ₂ O ₃ nanophosphor prepared by microwave hydrothermal method. <i>Applied Physics Letters</i> , 2006 , 89, 123120	3.4	41
55	Highly Selective Catalytic Hydrogenation of Arenes using Rhodium Nanoparticles Supported on Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13317-13319	3.8	40
54	Nanorice-like Structure of Carbon-Doped Hexagonal Boron Nitride as an Efficient Metal-Free Catalyst for Oxygen Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11115-11122	8.3	38
53	Nitrogen Doping in Oxygen-Deficient CaFeO: A Strategy for Efficient Oxygen Reduction Oxide Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34387-34395	9.5	37
52	Three dimensional flower like cobalt sulfide (CoS)/functionalized MWCNT composite catalyst for efficient oxygen evolution reactions. <i>Applied Surface Science</i> , 2019 , 466, 830-836	6.7	37

51	Designing of stable and highly efficient ordered Pt ₂ CoNi ternary alloy electrocatalyst: The origin of dioxygen reduction activity. <i>Nano Energy</i> , 2018 , 43, 219-227	17.1	36
50	Enhanced oxygen reduction reaction by bimetallic CoPt and PdPt nanocrystals. <i>RSC Advances</i> , 2013 , 3, 10487	3.7	35
49	Highly active and durable chemically ordered Pt ₃ FeCo intermetallics as cathode catalysts of membrane electrode assemblies in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2014 , 271, 346-353	8.9	34
48	Nitrogen and sulphur co-doped multiwalled carbon nanotubes as an efficient electrocatalyst for improved oxygen electroreduction. <i>Applied Surface Science</i> , 2018 , 449, 697-704	6.7	25
47	Three dimensional NiS ₂ /Ni(OH) ₂ /CNT nanostructured assembly for supercapacitor and oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152126	5.7	25
46	Enhanced methanol electrooxidation at Pt skin@PdPt nanocrystals. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17771-17779	13	24
45	Chemical control of superhydrophobicity of carbon nanotube surfaces: droplet pinning and electrowetting behavior. <i>Nanoscale</i> , 2013 , 5, 7011-6	7.7	21
44	Carbon nanotube-modified sodium dodecyl sulfate-polyacrylamide gel electrophoresis for molecular weight determination of proteins. <i>Analytical Biochemistry</i> , 2011 , 409, 230-5	3.1	20
43	Trimetallic PtNiCo nanoflowers as efficient electrocatalysts towards oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 8983-8990	6.7	17
42	B,N,S tri-doped reduced graphite oxide/cobalt oxide composite: a bifunctional electrocatalyst for enhanced oxygen reduction and oxygen evolution reactions. <i>New Journal of Chemistry</i> , 2018 , 42, 12908-12917	3.6	17
41	High-purity synthesis of scrolled mats of multi-walled carbon nanotubes using temperature modulation. <i>Carbon</i> , 2008 , 46, 567-576	10.4	17
40	Eu ³⁺ -doped lanthanum oxide nanowhiskers: microwave hydrothermal synthesis, characterization and photoluminescence properties. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 3974-3977	3	17
39	Investigation of interparticle interactions of larger (4.63 nm) monolayer protected gold clusters during quantized double layer charging. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 1837-44	3.6	16
38	Hexagonal Boron Nitride-Supported Crystalline Manganese Oxide Nanorods/Carbon: A Tunable Nanocomposite Catalyst for Dioxygen Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16886-16895	8.3	15
37	Molten-Salt Synthesis of Pt ₃ Co Binary Alloy Nanoplates as Excellent and Durable Electrocatalysts toward Oxygen Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 986-993	8.3	13
36	2D/3D heterostructure of h-BN/reduced graphite oxide as a remarkable electrode Material for supercapacitor. <i>Journal of Power Sources</i> , 2020 , 479, 229092	8.9	13
35	Low Density Three-Dimensional Metal Foams as Significant Electrocatalysts toward Methanol Oxidation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2062-2068	8.3	12
34	Mixed phase titanium carbide (Ti-C-Tx): A strategy to design a significant electrocatalyst for oxygen electroreduction and storage application. <i>Applied Surface Science</i> , 2018 , 458, 819-826	6.7	12

33	Forming a B B bond in boron carbon nitride composite: A way for metal free electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Journal of Catalysis</i> , 2019 , 378, 104-112	7.3	11
32	Enhanced field emission from hexagonal rhodium nanostructures. <i>Applied Physics Letters</i> , 2008 , 92, 2531-2534	5.4	11
31	Suppression of electron-transfer characteristics of ferrocene by OTS monolayer on a silicon/electrolyte interface. <i>Journal of Colloid and Interface Science</i> , 2006 , 299, 777-84	9.3	11
30	TiO ₂ -Decorated Titanium Carbide MXene co-Doped with Nitrogen and Sulfur for Oxygen Electroreduction. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1094-1103	5.6	11
29	Cobalt-Doped BaInO Brownmillerites: An Efficient Electrocatalyst for Oxygen Reduction in Alkaline Medium. <i>ACS Omega</i> , 2018 , 3, 1710-1717	3.9	10
28	Mechanical activation in reduced graphite oxide/boron nitride nanocomposite electrocatalysts for significant improvement in dioxygen reduction. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 252-261	5.8	10
27	Near-complete phase transfer of single-wall carbon nanotubes by covalent functionalization. <i>Journal of Chemical Sciences</i> , 2008 , 120, 599-606	1.8	10
26	Highly resolved quantized double-layer charging of relatively larger dodecanethiol-passivated gold quantum dots. <i>Journal of Applied Physics</i> , 2004 , 96, 5032-5036	2.5	10
25	Bi-Co-Cu Metal Oxide Foam as Significant Electrocatalyst for Methanol Electrooxidation. <i>ChemistrySelect</i> , 2020 , 5, 306-311	1.8	10
24	Efficient oxygen electroreduction kinetics by titanium carbide@nitrogen doped carbon nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 23649-23657	6.7	9
23	Polyoxomolybdate anchored graphite oxide: Noble metal-free electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24922-24933	6.7	9
22	Competitive wetting of acetonitrile and dichloromethane in comparison to that of water on functionalized carbon nanotube surfaces. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14668-74	3.6	9
21	Quantized double layer charging of dodecanethiol protected larger Au nanoclusters: combined investigations using differential pulse voltammetry, cyclic voltammetry and impedance technique. <i>Electrochemistry Communications</i> , 2004 , 6, 661-665	5.1	9
20	Morphology dependent facile synthesis of manganese oxide nanostructures for oxygen reduction reaction. <i>Solid State Ionics</i> , 2018 , 328, 1-7	3.3	9
19	Enhanced Oxygen Reduction Reaction by Pd-Pt Alloy Catalyst with Stabilized Platinum Skin. <i>ChemistrySelect</i> , 2020 , 5, 3486-3493	1.8	8
18	Unusual enhancement in the electroreduction of oxygen by NiCoPt by surface tunability through potential cycling. <i>RSC Advances</i> , 2017 , 7, 11777-11785	3.7	7
17	Chemoselective hydrogenation of cinnamaldehyde over a tailored oxygen-vacancy-rich Pd@ZrO ₂ catalyst. <i>New Journal of Chemistry</i> , 2021 , 45, 5659-5681	3.6	7
16	Ultrafast switching time and third order nonlinear coefficients of microwave treated single walled carbon nanotube suspensions. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5550-4	1.3	6

15	Rationale approach of nitrogen doping at defect sites of multiwalled carbon nanotubes: A strategy for oxygen reduction electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 10268-10280	6.7	6
14	Boosting oxygen evolution reaction performance by nickel substituted cobalt-iron oxide nanoparticles embedded over reduced graphene oxide. <i>Materials Chemistry and Physics</i> , 2020 , 252, 123238	4.4	5
13	Tuning the Transport Properties of Poly(oxyethylene)bisamine/Nafion Polyelectrolyte Complexes by Dielectric Manipulation. <i>Macromolecules</i> , 2008 , 41, 3653-3658	5.5	5
12	Sulfur and nitrogen co-doped rGO sheets as efficient electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Diamond and Related Materials</i> , 2021 , 114, 108338	3.5	5
11	Nanometer sized tridecylamine capped Rhodium dispersed on high surface area support: catalytic investigations. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2870-6	1.3	4
10	Current Trends in Platinum-Based Ternary Alloys as Promising Electrocatalysts for the Oxygen Reduction Reaction: A Mini Review. <i>Energy & Fuels</i> ,	4.1	4
9	Thermally Driven High-Rate Intercalated Pseudocapacitance of Flower-like Architecture of Ultrathin Few Layered MnO ₂ Nanosheets on Carbon Nano-Onions. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11398-11409	6.1	4
8	Starbon with Zn-N and Zn-O active sites: An efficient electrocatalyst for oxygen reduction reaction in energy conversion devices. <i>Catalysis Today</i> , 2021 , 370, 55-65	5.3	4
7	Role of polyfunctional organic molecules in the synthesis and assembly of metal nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2139-50	1.3	3
6	An adept approach to convert titanium carbide to titanium nitride and its composite with N-doped carbon nanotubes for efficient oxygen electroreduction kinetics. <i>Catalysis Today</i> , 2021 , 370, 46-54	5.3	3
5	Nitrogen-Doped Microporous Carbons Synthesized from Indole-Based Copolymer Spheres for Supercapacitors and Metal-Free Electrocatalysis. <i>Energy & Fuels</i> , 2021 , 35, 2785-2794	4.1	2
4	Honeycomb like copper-cobalt nanostructures and their synergy with carbon supports for electrooxidation of carbinol. <i>International Journal of Energy Research</i> , 2021 , 45, 6104-6114	4.5	1
3	Ru decorated Pt ₂ CoNi/C Nanoparticles as a Proficient Electrocatalyst for Oxygen Reduction Reaction. <i>Journal of Alloys and Compounds</i> , 2022 , 165520	5.7	1
2	Reduced graphene oxide-wrapped Mn ₂ O ₃ /MnO ₂ nanowires for electrocatalytic oxygen reduction in alkaline medium. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0
1	Magneto-structural properties and reliability of (Mn/Ni/Zn) substituted cobalt-copper ferrite heterogeneous catalyst for selective and efficient oxidation of aryl alcohols. <i>Inorganic and Nano-Metal Chemistry</i> , 1-14	1.2	0