

Iwona A Rutkowska

List of Publications by Citations

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40
papers

958
citations

13
h-index

30
g-index

66
ext. papers

1,092
ext. citations

4.8
avg, IF

4.12
L-index

#	Paper	IF	Citations
40	Metal oxide photoanodes for solar hydrogen production. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2298		427
39	Electrocatalytic oxidation of small organic molecules in acid medium: enhancement of activity of noble metal nanoparticles and their alloys by supporting or modifying them with metal oxides. <i>Electrochimica Acta</i> , 2013 , 110, 474-483	6.7	82
38	Hexagonal nanorods of tungsten trioxide: Synthesis, structure, electrochemical properties and activity as supporting material in electrocatalysis. <i>Applied Surface Science</i> , 2011 , 257, 8223-8229	6.7	49
37	Toward Pt-Free Anion-Exchange Membrane Fuel Cells: Fe ₃ N Carbon Nitride/Graphene Core/Shell Electrocatalysts for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2018 , 30, 2651-2659	9.6	34
36	Effective charge propagation and storage in hybrid films of tungsten oxide and poly(3,4-ethylenedioxythiophene). <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 2049-2056	2.6	33
35	Enhanced photoelectrochemical CO ₂ -reduction system based on mixed Cu ₂ O/nonstoichiometric TiO ₂ photocathode. <i>Catalysis Today</i> , 2018 , 300, 145-151	5.3	30
34	Evaluation of reduced-graphene-oxide-supported gold nanoparticles as catalytic system for electroreduction of oxygen in alkaline electrolyte. <i>Electrochimica Acta</i> , 2017 , 233, 113-122	6.7	28
33	Elucidation of role of graphene in catalytic designs for electroreduction of oxygen. <i>Current Opinion in Electrochemistry</i> , 2018 , 9, 257-264	7.2	28
32	Electrochemical characterization of Prussian blue type nickel hexacyanoferrate redox mediator for potential application as charge relay in dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 2545-2552	2.6	24
31	Admixing palladium nanoparticles with tungsten oxide nanorods toward more efficient electrocatalytic oxidation of formic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 439, 200-206	5.1	22
30	Reduction of carbon dioxide at copper(I) oxide photocathode activated and stabilized by over-coating with oligoaniline. <i>Electrochimica Acta</i> , 2018 , 265, 400-410	6.7	17
29	Nanocomposite semi-solid redox ionic liquid electrolytes with enhanced charge-transport capabilities for dye-sensitized solar cells. <i>ChemSusChem</i> , 2015 , 8, 2560-8	8.3	16
28	Enhancement of oxygen reduction at Co-porphyrin catalyst by supporting onto hybrid multi-layered film of polypyrrole and polyoxometalate-modified gold nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 1199-1208	2.6	14
27	15-Copper(ii)-containing 36-tungsto-4-silicates(iv) [CuO(OH)X(A-BiWO)] (X = Cl, Br): synthesis, structure, magnetic properties, and electrocatalytic CO reduction. <i>Dalton Transactions</i> , 2018 , 47, 12439-12448	4.3	13
26	Fabrication of Nanostructured Palladium Within Tridentate Schiff-Base-Ligand Coordination Architecture: Enhancement of Electrocatalytic Activity Toward CO ₂ Electroreduction. <i>Electrocatalysis</i> , 2014 , 5, 229-234	2.7	12
25	Fe -Containing 96-Tungsto-16-Phosphate: Synthesis, Structure, Magnetism and Electrochemistry. <i>Chemistry - A European Journal</i> , 2020 , 26, 15821-15824	4.8	12
24	Electrocatalytic oxidation of ethanol in acid medium: Enhancement of activity of vulcan-supported Platinum-based nanoparticles upon immobilization within nanostructured zirconia matrices. <i>Functional Materials Letters</i> , 2014 , 07, 1440005	1.2	11

23	Correlation between Precursor Properties and Performance in the Oxygen Reduction Reaction of Pt and Co Core-shell Carbon Nitride-Based Electrocatalysts. <i>Electrocatalysis</i> , 2020 , 11, 143-159	2.7	10
22	Enhancement of Oxidation of Formic Acid in Acid Medium on Zirconia-Supported Phosphotungstate-Decorated Noble Metal (Pd, Pt) Nanoparticles. <i>Australian Journal of Chemistry</i> , 2016 , 69, 394	1.2	10
21	Activation of Reduced-Graphene-Oxide Supported Pt Nanoparticles by Aligning with WO ₃ -Nanowires toward Oxygen Reduction in Acid Medium: Diagnosis with Rotating-Ring-Disk Voltammetry and Double-Potential-Step Chronocoulometry. <i>Journal of the Electrochemical Society</i> , 2018 , 165, 13384-13391	3.9	10
20	Electrocatalytic and Photoelectrochemical Reduction of Carbon Dioxide at Hierarchical Hybrid Films of Copper(I) Oxide Decorated with Tungsten(VI) Oxide Nanowires. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H3271-H3278	3.9	9
19	Photoelectrochemical reduction of CO ₂ : Stabilization and enhancement of activity of copper(I) oxide semiconductor by over-coating with tungsten carbide and carbide-derived carbons. <i>Electrochimica Acta</i> , 2020 , 341, 136054	6.7	8
18	Integration of vanadium-mixed addenda Dawson heteropolytungstate within poly(3,4-ethylenedioxythiophene) and poly(2,2'-bithiophene) films by electrodeposition from the nonionic micellar aqueous medium. <i>Electrochimica Acta</i> , 2011 , 56, 3605-3615	6.7	7
17	Elucidation of activity of copper and copper oxide nanomaterials for electrocatalytic and photoelectrochemical reduction of carbon dioxide. <i>Current Opinion in Electrochemistry</i> , 2020 , 23, 131-138	7.2	6
16	Low-Noble-Metal-Loading Hybrid Catalytic System for Oxygen Reduction Utilizing Reduced-Graphene-Oxide-Supported Platinum Aligned with Carbon-Nanotube-Supported Iridium. <i>Catalysts</i> , 2020 , 10, 689	4	6
15	A formalism to compare electrocatalysts for the oxygen reduction reaction by cyclic voltammetry with the thin-film rotating ring-disk electrode measurements. <i>Current Opinion in Electrochemistry</i> , 2021 , 31, 100839	7.2	6
14	Electrocatalytic effects during redox reactions of arsenic at platinum nanoparticles in acid medium: Possibility of preconcentration, electroactive film formation, and detection of As(III) and As(V). <i>Electrochimica Acta</i> , 2019 , 319, 499-510	6.7	5
13	Photoelectrochemical Reduction of CO ₂ at Poly(4-Vinylpyridine)-Stabilized Copper(I) Oxide Semiconductor: Feasibility of Interfacial Decoration with Palladium Cocatalyst. <i>Solar Rrl</i> , 2021 , 5, 2000705	7.1	5
12	Prussian-blue-modified reduced-graphene-oxide as active support for Pt nanoparticles during oxygen electroreduction in acid medium. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 114347	4.1	4
11	Critical Review Electrochemical Sensors for Arsenic Oxo Species. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037565	3.9	4
10	Assembly of crosslinked oxo-cyanoruthenate and zirconium oxide bilayers: Application in electrocatalytic films based on organically modified silica with templated pores. <i>Electrochimica Acta</i> , 2014 , 122, 197-203	6.7	4
9	Heteropolytungstate-assisted fabrication and deposition of catalytic silver nanoparticles on different reduced graphene oxide supports: Electroreduction of oxygen in alkaline electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 114694	4.1	3
8	Visible-light-driven CO reduction on dye-sensitized NiO photocathodes decorated with palladium nanoparticles.. <i>RSC Advances</i> , 2020 , 10, 31680-31690	3.7	3
7	Strategies for Electrocatalytic Reduction and Photoelectrochemical Conversion of Carbon Dioxide to Fuels and Utility Chemicals. <i>Electrochemical Society Interface</i> , 2020 , 29, 67-72	3.6	2
6	(Invited) Hybrid Mixed-Metal-Oxide-Based Catalytic Systems for Efficient Electroreduction of Carbon Dioxide. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 3204-3204	0	1

5	Enhancement of oxidation of dimethyl ether through application of zirconia matrix for immobilization of noble metal catalytic nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 3173-3183	2.6	1
4	Enhancement of Activity and Development of Low Pt Content Electrocatalysts for Oxygen Reduction Reaction in Acid Media. <i>Molecules</i> , 2021 , 26,	4.8	1
3	Future of interfacial electrochemistry: from structure-function relationships to better understanding of charge transfer reactions and (photo)electrocatalytic reactivity. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 2115-2116	2.6	0
2	Activation of bimetallic PtFe nanoparticles with zeolite-type cesium salts of vanadium-substituted polyoxometallates toward electroreduction of oxygen at low Pt loadings for fuel cells. <i>Journal of Solid State Electrochemistry</i> , 1	2.6	0
1	Stabilization and activation of Pd nanoparticles for efficient CO ₂ -reduction: Importance of their generation within supramolecular network of tridentate Schiff-base ligands with N,N coordination sites. <i>Electrochimica Acta</i> , 2021 , 388, 138550	6.7	0