Krishnan Rajeshwar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/12077007/publications.pdf

Version: 2024-02-01

145 papers	7,466 citations	61984 43 h-index	58581 82 g-index
152 all docs	152 docs citations	152 times ranked	8507 citing authors

#	Article	IF	Citations
1	Semiconductor-Based Composite Materials:â€‰ Preparation, Properties, and Performance. Chemistry of Materials, 2001, 13, 2765-2782.	6.7	482
2	Bactericidal Activity of TiO2 Photocatalyst in Aqueous Media: Toward a Solar-Assisted Water Disinfection System. Environmental Science & Technology, 1994, 28, 934-938.	10.0	481
3	Metal Hexacyanoferrates:â€‰ Electrosynthesis, in Situ Characterization, and Applications. Chemistry of Materials, 2003, 15, 3046-3062.	6.7	412
4	Combustion Synthesis and Characterization of Nanocrystalline WO₃. Journal of the American Chemical Society, 2008, 130, 6318-6319.	13.7	242
5	Hydrogen generation at irradiated oxide semiconductorâ€“solution interfaces. Journal of Applied Electrochemistry, 2007, 37, 765-787.	2.9	240
6	Efficient solar photoelectrosynthesis of methanol from carbon dioxide using hybrid CuOâ€“Cu2O semiconductor nanorod arrays. Chemical Communications, 2013, 49, 1297.	4.1	230
7	Solution combustion synthesis of oxide semiconductors for solar energy conversion and environmental remediation. Chemical Society Reviews, 2009, 38, 1984.	38.1	202
8	Electrosynthesized thin films of group II-VI compound semiconductors, alloys and superstructures. Advanced Materials, 1992, 4, 23-29.	21.0	168
9	Ruthenium Photocatalysts Capable of Reversibly Storing up to Four Electrons in a Single Acceptor Ligand: A Step Closer to Artificial Photosynthesis. Angewandte Chemie - International Edition, 2002, 41, 3185-3187.	13.8	156
10	Heterogeneous Photocatalytic Reduction of Cr(VI) in UV-Irradiated Titania Suspensions:Â Effect of Protons, Ammonium Ions, and Other Interfacial Aspects. Langmuir, 2000, 16, 2715-2721.	3.5	145
11	Dinuclear Ruthenium(II) Polypyridyl Complexes Containing Large, Redox-Active, Aromatic Bridging Ligands:â€‰ Synthesis, Characterization, and Intramolecular Quenching of MLCT Excited States. Inorganic Chemistry, 2002, 41, 2471-2476.	4.0	140
12	Cobalt Hexacyanoferrate:â€‰ Compound Stoichiometry, Infrared Spectroelectrochemistry, and Photoinduced Electron Transfer. Journal of Physical Chemistry B, 2002, 106, 3612-3621.	2.6	131
13	Photocatalytic Reduction and Immobilization of Hexavalent Chromium at Titanium Dioxide in Aqueous Basic Media. Journal of the Electrochemical Society, 1993, 140, 2477-2482.	2.9	130
14	Anodic growth of nanoporous WO3 films: Morphology, photoelectrochemical response and photocatalytic activity for methylene blue and hexavalent chrome conversion. Journal of Electroanalytical Chemistry, 2008, 612, 112-120.	3.8	126
15	Enhanced Photoelectrochemical Performance of Cuprous Oxide/Graphene Nanohybrids. Journal of the American Chemical Society, 2017, 139, 6682-6692.	13.7	120
16	Tailoring Copper Oxide Semiconductor Nanorod Arrays for Photoelectrochemical Reduction of Carbon Dioxide to Methanol. ChemPhysChem, 2013, 14, 2251-2259.	2.1	119
17	Photoelectrochemical reduction of CO2 on Cu/Cu2O films: Product distribution and pH effects. Chemical Engineering Journal, 2015, 264, 302-309.	12.7	114
18	Bisphenol A removal from wastewater using self-organized TIO2 nanotubular array electrodes. Chemosphere, 2010, 78, 569-575.	8.2	108

#	Article	IF	Citations
19	Formation and Characterization of Self-Organized TiO₂ Nanotube Arrays by Pulse Anodization. Journal of the American Chemical Society, 2008, 130, 965-974.	13.7	106
20	Comparison of oxidation efficiency of disperse dyes by chemical and photoelectrocatalytic chlorination and removal of mutagenic activity. Electrochimica Acta, 2009, 54, 2086-2093.	5.2	104
21	Photocatalytic Activity of Inorganic Semiconductor Surfaces: Myths, Hype, and Reality. Journal of Physical Chemistry Letters, 2015, 6, 139-147.	4.6	97
22	Titania-based heterogeneous photocatalysis. Materials, mechanistic issues, and implications for environmental remediation. Pure and Applied Chemistry, 2001, 73, 1849-1860.	1.9	93
23	Bringing Conjugated Polymers and Oxide Nanoarchitectures into Intimate Contact: Light-Induced Electrodeposition of Polypyrrole and Polyaniline on Nanoporous WO₃ or TiO₂ Nanotube Array. Journal of Physical Chemistry C, 2012, 116, 19145-19155.	3.1	92
24	The kinetics of the thermal decomposition of green river oil shale kerogen by non-isothermal thermogravimetry. Thermochimica Acta, 1981, 45, 253-263.	2.7	84
25	Multielectron Photoreduction of a Bridged Ruthenium Dimer, [(phen)2Ru(tatpp)Ru(phen)2][PF6]4:â€‰ Aqueous Reactivity and Chemical and Spectroelectrochemical Identification of the Photoproducts. Journal of the American Chemical Society, 2004, 126, 11621-11629.	13.7	82
26	Reduction of Hexavalent Chromium in Aqueous Solutions by Polypyrrole. Journal of the Electrochemical Society, 1993, 140, L60-L62.	2.9	81
27	Photocatalytic production of hydrogen from electrodeposited p-Cu2Op-Cu2O film and sacrificial electron donors. International Journal of Hydrogen Energy, 2007, 32, 4661-4669.	7.1	81
28	Tailoring Interfaces for Electrochemical Synthesis of Semiconductor Films: BiVO₄, Bi₂O₃, or Composites. Journal of Physical Chemistry C, 2011, 115, 7793-7800.	3.1	78
29	Solar Energy Conversion and Environmental Remediation Using Inorganic Semiconductorâ€“Liquid Interfaces: The Road Traveled and the Way Forward. Journal of Physical Chemistry Letters, 2011, 2, 1301-1309.	4.6	75
30	Reviewâ€”Copper Oxide-Based Ternary and Quaternary Oxides: Where Solid-State Chemistry Meets Photoelectrochemistry. Journal of the Electrochemical Society, 2018, 165, H3192-H3206.	2.9	70
31	Electrodeposited Polyaniline in a Nanoporous WO₃ Matrix: An Organic/Inorganic Hybrid Exhibiting Both p- and n-Type Photoelectrochemical Activity. Journal of Physical Chemistry C, 2012, 116, 4234-4242.	3.1	68
32	Photoassisted Deposition of Chalcogenide Semiconductors on the Titanium Dioxide Surface:â€‰ Mechanistic and Other Aspects. Chemistry of Materials, 2004, 16, 3846-3852.	6.7	67
33	Pulsed Plasma Polymerization of Tetramethyltin:Â Nanoscale Compositional Control of Film Chemistry. Chemistry of Materials, 1996, 8, 1067-1077.	6.7	63
34	Photoelectrochemical Behavior of Polychelate Porphyrin Chromophores and Titanium Dioxide Nanotube Arrays for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2009, 113, 2996-3006.	3.1	53
35	Polyaniline films photoelectrochemically reduce CO₂ to alcohols. Chemical Communications, 2016, 52, 8858-8861.	4.1	53
36	Surface Morphology/Composition and Photoelectrochemical Behavior of Metalâ^'Semiconductor Composite Films. Langmuir, 2000, 16, 5665-5672.	3.5	51

#	Article	IF	Citations
37	Anodic Electrosynthesis of Cadmium Selenide Thin Films : Characterization and Comparison with the Passive/Transpassive Behavior of the Counterparts. Journal of the Electrochemical Society, 1991, 138, 100-108.	2.9	50
38	Influence of pH on the Photochemical and Electrochemical Reduction of the Dinuclear Ruthenium Complex, [(phen)2Ru(tatpp)Ru(phen)2]Cl4, in Water: Proton-Coupled Sequential and Concerted Multi-Electron Reduction. Chemistry - A European Journal, 2005, 11, 4327-4339.	3.3	49
39	Composite WO3â€“TiO2 films prepared by pulsed electrodeposition: morphological aspects and electrochromic behavior. Journal of Electroanalytical Chemistry, 2004, 566, 249-256.	3.8	47
40	Chemically Modified Ni/TiO2 Nanocomposite Films:â€‰ Charge Transfer from Photoexcited TiO2 Particles to Hexacyanoferrate Redox Centers within the Film and Unusual Photoelectrochemical Behavior. Journal of Physical Chemistry B, 1997, 101, 10151-10154.	2.6	46
41	Titania nanotubes from pulse anodization of titanium foils. Electrochemistry Communications, 2007, 9, 2145-2149.	4.7	46
42	Thermolytic Formation of Noble Metals and Their Oxides from Chloride Precursors: A Thermal Analysis Study. Journal of the Electrochemical Society, 1987, 134, 1830-1835.	2.9	45
43	Photocatalytic reactivity of zinc and cadmium ions in UV-irradiated titania suspensions. Journal of Electroanalytical Chemistry, 2000, 494, 79-86.	3.8	45
44	Ruthenium Photocatalysts Capable of Reversibly Storing up to Four Electrons in a Single Acceptor Ligand: A Step Closer to Artificial Photosynthesis. Angewandte Chemie, 2002, 114, 3317-3319.	2.0	45
45	Photocatalytic Removal of Nickel from Aqueous Solutions Using Ultravioletâ€irradiated TiO2. Journal of the Electrochemical Society, 1997, 144, 2751-2756.	2.9	44
46	Timeâ€•and Energyâ€Efficient Solution Combustion Synthesis of Binary Metal Tungstate Nanoparticles with Enhanced Photocatalytic Activity. ChemSusChem, 2015, 8, 1652-1663.	6.8	44
47	On the measured optical bandgap values of inorganic oxide semiconductors for solar fuels generation. Catalysis Today, 2018, 300, 136-144.	4.4	43
48	Laboratory Experiments on Electrochemical Remediation of the Environment: Electrocoagulation of Oily Wastewater. Journal of Chemical Education, 1995, 72, 1050.	2.3	42
49	Photocatalytically Generated Ptâ•Câ€“TiO[sub 2] Electrocatalysts with Enhanced Catalyst Dispersion for Improved Membrane Durability in Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B1102.	2.9	42
50	Study of Copper Sulfide Film Formation by Voltammetry Combined with Electrochemical Quartz Crystal Microgravimetry/Coulometry and Optical Spectroscopy. The Journal of Physical Chemistry, 1996, 100, 18234-18239.	2.9	41
51	Preparation, photoelectrochemical characterization, and photoelectrochromic behavior of metal hexacyanoferrateâ€“titanium dioxide composite films. Electrochimica Acta, 2000, 45, 3403-3411.	5.2	40
52	Selenium-Modified Titanium Dioxide Photochemical Diode/Electrolyte Junctions:â€‰ Photocatalytic and Electrochemical Preparation, Characterization, and Model Simulations. Journal of Physical Chemistry B, 2005, 109, 11953-11960.	2.6	40
53	Composites of polypyrrole and carbon black: Part III. Chemical synthesis and characterization. Journal of Materials Research, 1995, 10, 1811-1822.	2.6	39
54	Film Chemistry Control and Electrochemical Properties of Pulsed Plasma Polymerized Ferrocene and Vinylferrocene. Langmuir, 1997, 13, 5941-5950.	3.5	38

#	Article	IF	Citations
55	Continuous Flow Photoelectrochemical Reactor for Solar Conversion of Carbon Dioxide to Alcohols. Journal of the Electrochemical Society, 2015, 162, E115-E122.	2.9	38
56	Electrocatalytic reduction of Cr(VI) by polypyrrole-modified glassy carbon electrodes. Journal of Electroanalytical Chemistry, 1997, 425, 183-189.	3.8	37
57	Electrosynthesis of Bismuth Vanadate Photoelectrodes. Electrochemical and Solid-State Letters, 2010, 13, D29.	2.2	36
58	Underpotential Photocatalytic Deposition:Â A New Preparative Route to Composite Semiconductors. Chemistry of Materials, 2000, 12, 3538-3540.	6.7	34
59	Bandgap-engineered quaternary M x Bi 2â^'x Ti 2 O 7 (M: Fe, Mn) semiconductor nanoparticles: Solution combustion synthesis, characterization, and photocatalysis. Applied Catalysis B: Environmental, 2017, 208, 148-160.	20.2	34
60	Rapid One-Pot Synthesis and Photoelectrochemical Properties of Copper Vanadates. ACS Applied Energy Materials, 2019, 2, 2837-2847.	5.1	34
61	Synergistic photocatalysis mediated by TiO2: mutual rate enhancement in the photoreduction of Cr(VI) and Cu(II) in aqueous media. Electrochemistry Communications, 2001, 3, 290-292.	4.7	33
62	Photoelectrochemical Oxidation of Formate Ions on Nickelâ^'Titanium Dioxide Nanocomposite Electrodes:Â Unusually High â€œCurrent Doublingâ€•Yields and Manifestation of a Site Proximity Effect. Langmuir, 1998, 14, 2933-2935.	3.5	32
63	One-Step Electrodeposition of Nanocrystalline TiO₂ Films with Enhanced Photoelectrochemical Performance and Charge Storage. ACS Applied Energy Materials, 2018, 1, 851-858.	5.1	32
64	Photoelectrochemistry and Raman spectroelectrochemistry of cuprous thiocyanate films on copper electrodes in acidic media. Journal of Electroanalytical Chemistry, 1993, 345, 135-146.	3.8	31
65	Electrochemical Grafting of Poly(3,4-ethylenedioxythiophene) into a Titanium Dioxide Nanotube Host Network. Langmuir, 2010, 26, 13697-13702.	3.5	31
66	Light in an electrochemical tunnel? Solving analytical problems in electrochemistry via spectroscopy. Analytical Chemistry, 1992, 64, 429A-441A.	6.5	30
67	Electrosynthesis of cadmium selenide films on a selenium-modified gold surface. Electrochemistry Communications, 1999, 1, 42-45.	4.7	30
68	Photocatalytic Generation of Syngas Using Combustionâ€Synthesized Silver Bismuth Tungstate. ChemPhysChem, 2012, 13, 2945-2955.	2.1	30
69	Cathodic photoprocesses on titania films and in aqueous suspensions. Journal of Electroanalytical Chemistry, 2002, 538-539, 173-182.	3.8	29
70	Electrochemical impedance spectroscopy and UVâ€“vis reflectance spectroelectrochemistry of cobalt hexacyanoferrate films. Journal of Electroanalytical Chemistry, 2006, 587, 42-55.	3.8	29
71	Electrocatalytic Reduction of Carbon Dioxide Using Ptâ•C-TiO2 Nanocomposite Cathode. Electrochemical and Solid-State Letters, 2012, 15, B5.	2.2	29
72	Composite WO3â€“TiO2 films: Pulsed electrodeposition from a mixed bath versus sequential deposition from twin baths. Electrochemistry Communications, 2006, 8, 539-543.	4.7	28

#	Article	IF	Citations
73	On the electrochemical synthesis and charge storage properties of WO3/polyaniline hybrid nanostructures. Journal of Solid State Electrochemistry, 2015, 19, 2741-2751.	2.5	28
74	Potential-modulated ultravioletâ€“visible and Raman spectra of polypyrrole thin films in aqueous electrolytes : combination with voltammetric scanning and the influence of dioxygen on the stability of radical cations and dications of the conducting polymer. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 605-610.	1.7	27
75	Phase-Pure Copper Vanadate (Î±-CuV₂O₆): Solution Combustion Synthesis and Characterization. Chemistry of Materials, 2020, 32, 6247-6255.	6.7	27
76	Free Radical-Mediated Heterogeneous Photocatalytic Reduction of Metal Ions in UV-Irradiated Titanium Dioxide Suspensions. Journal of Physical Chemistry B, 2004, 108, 4784-4788.	2.6	26
77	Electrosynthesis of indium sulfide on sulfur-modified polycrystalline gold electrodes. Journal of Electroanalytical Chemistry, 1998, 444, 7-10.	3.8	24
78	Anodic electrosynthesis of Cu2S and CuInS2 films. Journal of Electroanalytical Chemistry, 1998, 453, 187-195.	3.8	24
79	Electrodeposition and stripping analysis of bismuth selenide thin films using combined electrochemical quartz crystal microgravimetry and stripping voltammetry. Journal of Electroanalytical Chemistry, 2010, 638, 195-203.	3.8	24
80	Charge storage and transport in thermal ruthenium oxide thin films. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 263, 383-397.	0.1	23
81	Spectroelectrochemistry of palladium hexacyanoferrate films on platinum substrates. Journal of Electroanalytical Chemistry, 2003, 544, 101-106.	3.8	23
82	Reduction of carbon dioxide at copper(I) oxide photocathode activated and stabilized by over-coating with oligoaniline. Electrochimica Acta, 2018, 265, 400-410.	5.2	23
83	Photoelectrochemical Oxidation of Aqueous Sulfite on Niâ^'TiO2Composite Film Electrodes. Langmuir, 2000, 16, 8426-8431.	3.5	22
84	Cathodic Electrodeposition of CdO Thin Films from Oxygenated Aqueous Solutions. Electrochemical and Solid-State Letters, 2006, 9, C1.	2.2	22
85	Mechanistic Aspects of Photoelectrochemical Polymerization of Polypyrrole on a TiO2 Nanotube Array. Electrochimica Acta, 2014, 122, 303-309.	5.2	22
86	Anodic electrosynthesis of cadmium telluride (CdTe) thin films. Chemistry of Materials, 1989, 1, 619-625.	6.7	21
87	Platinum-carbon black-titanium dioxide nanocomposite electrocatalysts for fuel cell applications. Journal of Chemical Sciences, 2009, 121, 655-664.	1.5	21
88	On the Substantially Improved Photoelectrochemical Properties of Nanoporous WO3 Through Surface Decoration with RuO2. Electrocatalysis, 2013, 4, 382-389.	3.0	21
89	Electrodeposition of Inorganic Oxide/Nanocarbon Composites: Opportunities and Challenges. ChemElectroChem, 2016, 3, 181-192.	3.4	21
90	A Voltammetric Study of Compound Formation in the Hgâ€Cdâ€Te System. Journal of the Electrochemical Society, 1990, 137, 1100-1106.	2.9	20

#	Article	IF	Citations
91	Compositional analysis of organicâ€“inorganic semiconductor composites. Analyst, The, 1998, 123, 113-116.	3.5	20
92	Photoelectrochemical Infiltration of a Conducting Polymer (PEDOT) into Metal-Chalcogenide Decorated TiO2 Nanotube Arrays. Electrochimica Acta, 2015, 151, 467-476.	5.2	20
93	Semiconductor nanostructures in an alumina template matrix: micro- versus macro-scale photoelectrochemical behavior. Electrochimica Acta, 2002, 47, 2603-2613.	5.2	19
94	Electrosynthesis of cadmium sulfide on sulfur- or thiol-modified polycrystalline gold electrodes. Journal of Electroanalytical Chemistry, 2005, 574, 367-373.	3.8	19
95	Photocatalytically Prepared Metal Nanoclusterâ€“Oxide Semiconductorâ€“Carbon Nanocomposite Electrodes for Driving Multielectron Transfer. Journal of Physical Chemistry Letters, 2013, 4, 3468-3478.	4.6	18
96	Thermal analyses of compound semiconductors using differential scanning calorimetry. Application to compositional analyses of cathodically electrosynthesized cadmium telluride. Analytical Chemistry, 1990, 62, 821-825.	6.5	16
97	Compositional Analysis of Electrodeposited Bismuth Telluride Thermoelectric Thin Films Using Combined Electrochemical Quartz Crystal Microgravimetryâˆ’Stripping Voltammetry. Analytical Chemistry, 2008, 80, 6724-6730.	6.5	16
98	Preparation of Au-Bi₂O₃Nanocomposite by Anodic Electrodeposition Combined with Galvanic Replacement. Journal of the Electrochemical Society, 2014, 161, D499-D503.	2.9	16
99	Electrodeposition of Cobalt Selenide Thin Films: An Electrochemical Quartz Crystal Microgravimetry Study. Journal of the Electrochemical Society, 2017, 164, D861-D866.	2.9	16
100	Thermophysical characterization of oil sands. 4. Thermal analyses. Thermochimica Acta, 1982, 58, 325-331.	2.7	15
101	Immobilizing semiconductor particles by occlusion electrosynthesis in an oxide film matrix: the titania model case. Electrochemistry Communications, 2002, 4, 871-876.	4.7	15
102	Photocatalytically Generated Bimetallic (Ptâ€“Auâˆ•Câ€“TiO[sub 2]) Electrocatalysts for Polymer Electrolyte Fuel Cell Applications. Journal of the Electrochemical Society, 2010, 157, B147.	2.9	15
103	Anodic Growth of Titania Nanotube Array on Titanium Substrate: A Study by Electrochemical Impedance Spectroscopy. Journal of the Electrochemical Society, 2011, 158, D84.	2.9	15
104	Silver Oxideâ€Based Semiconductors for Solar Fuels Production and Environmental Remediation: a Solidâ€State Chemistry Approach. ChemElectroChem, 2019, 6, 87-96.	3.4	15
105	Photoelectrochromism in Chemically Modified Nickelâˆ’Titanium Dioxide Nanocomposite Films. Chemistry of Materials, 1998, 10, 25-26.	6.7	14
106	Photoinduced cathodic deposition of CdTe nanoparticles on polycrystalline gold substrate. Electrochemistry Communications, 2007, 9, 1293-1297.	4.7	14
107	Flavin Derivatives with Tailored Redox Properties: Synthesis, Characterization, and Electrochemical Behavior. Chemistry - A European Journal, 2016, 22, 9209-9217.	3.3	14
108	Photoelectrochemistry of indium hexacyanoferrateâ€“titania composite films. Journal of Electroanalytical Chemistry, 2001, 500, 270-278.	3.8	13

#	Article	IF	Citations
109	Photocatalytically Generated Trimetallic (Pt-Pd-Au/C-TiO₂) Nanocomposite Electrocatalyst. Journal of the Electrochemical Society, 2012, 159, F226-F233.	2.9	13
110	CdSe/ZnO Composite via Galvanic Displacement Followed by Photocathodic Deposition: Hybrid Electrosynthesis and Characterization. Journal of Physical Chemistry C, 2012, 116, 20146-20153.	3.1	13
111	Composite copper oxideâ€“copper bromide films for the selective electroreduction of carbon dioxide. Journal of Materials Research, 2017, 32, 1727-1734.	2.6	13
112	Tungsten trioxideâ€“titanium dioxide composite films prepared by occlusion electrosynthesis in a nickel matrix. Journal of Electroanalytical Chemistry, 2003, 553, 77-85.	3.8	12
113	Cathodic Electrosynthesis of Niobium Oxide One-Dimensional Nanostructures with Tailored Dimensions. Electrochemical and Solid-State Letters, 2010, 13, B69.	2.2	12
114	Application of Combined Flow Injectionâ€“Electrochemical Quartz Crystal Microgravimetry to On-line Electrodeposition and Compositional Analysis of CdSe Thin Films. Microchemical Journal, 1999, 62, 15-25.	4.5	11
115	Arc Synthesis, Crystal Structure, and Photoelectrochemistry of Copper(I) Tungstate. ACS Applied Materials & Interfaces, 2021, 13, 32865-32875.	8.0	11
116	Bioinspired photocatalyst assemblies for environmental remediation. Electrochimica Acta, 2012, 84, 96-102.	5.2	10
117	Synthesis of Au-BiVO4Nanocomposite through Anodic Electrodeposition Followed by Galvanic Replacement and Its Application to the Photocatalytic Decomposition of Methyl Orange. ChemPhysChem, 2014, 15, 2052-2057.	2.1	10
118	Electrodeposition of Silver Vanadate Films: A Tale of Two Polymorphs. ChemPhysChem, 2019, 20, 2635-2646.	2.1	10
119	Chronopotentiometry of Titania Film Electrodes in Aqueous Media. Journal of Physical Chemistry B, 2002, 106, 11531-11538.	2.6	9
120	Naming Photoelectrochemical Processes: Why Thermodynamics Holds the Key. ACS Energy Letters, 2021, 6, 2198-2201.	17.4	9
121	Electrosynthesis and Properties of Crystalline and Phase-Pure Silver Orthovanadate. Journal of Physical Chemistry C, 2020, 124, 19980-19989.	3.1	8
122	Electrodeposition of Cu2Se Semiconductor Thin Film on Se-Modified Polycrystalline Au Electrode. Journal of Electrochemical Science and Technology, 2013, 4, 140-145.	2.2	8
123	In Situ Characterization of Lead Corrosion Layers by Combined Voltammetry, Coulometry, and Electrochemical Quartz Crystal Microgravimetry. Journal of the Electrochemical Society, 1993, 140, L128-L130.	2.9	7
124	Current Trends in Semiconductor Photoelectrochemistry. ACS Energy Letters, 2017, 2, 1425-1428.	17.4	7
125	Photoelectrochemical Reduction of CO₂ at Poly(4â€Vinylpyridine)â€Stabilized Copper(I) Oxide Semiconductor: Feasibility of Interfacial Decoration with Palladium Cocatalyst. Solar Rrl, 2021, 5, 2000705.	5.8	7
126	Electrodeposition and characterization of nanocrystalline semiconductor films. Studies in Surface Science and Catalysis, 1997, , 321-351.	1.5	6

#	Article	IF	Citations
127	Compositional Analysis of Electrodeposited Cobalt Selenide Thin Films Using Continuous Flow Electrochemical Quartz Crystal Microgravimetry. Journal of the Electrochemical Society, 2018, 165, D370-D374.	2.9	6
128	Adsorbed Thallium(I) Ions as a Probe of Surface Charge in UV-Irradiated Titania/Aqueous Solution Interfaces. Langmuir, 2001, 17, 3792-3794.	3.5	5
129	CHAPTER 11. Electro- and Photocatalytic Reduction of CO2: The Homogeneous and Heterogeneous Worlds Collide?. RSC Energy and Environment Series, 0, , 289-332.	0.5	5
130	Combining Electrosynthesis with Thermolysis: A Safe/Scalable Route to Multinary Oxide Semiconductor Films. ChemElectroChem, 2021, 8, 1251-1258.	3.4	5
131	Copper vanadates: Targeted synthesis of two pure phases and use in a photoanode/cathode setup for selective photoelectrochemical conversion of carbon dioxide to liquid fuel. Materials Research Bulletin, 2022, 149, 111716.	5.2	5
132	Dynamics and topochemistry of the thermal formation of cadmium telluride from the constituent elements: a differential scanning calorimetry study. The Journal of Physical Chemistry, 1991, 95, 3975-3979.	2.9	4
133	Electrosynthesis of MoTe2 Thin Films: A Combined Voltammetry-Electrochemical Quartz Crystal Microgravimetry Study of Mechanistic Aspects. Journal of the Electrochemical Society, 2020, 167, 116510.	2.9	4
134	Electrosynthesis of CdS/MoS₂ Using Electrodeposited MoS_x: A Combined Voltammetryâ€“Electrochemical Quartz Crystal Nanogravimetry Study. ACS Applied Energy Materials, 2021, 4, 7562-7570.	5.1	4
135	Optical, Electrochemical, and Photoelectrochemical Behavior of Copper Pyrovanadate: A Unified Theoretical and Experimental Study. Journal of Physical Chemistry C, 2021, 125, 19609-19620.	3.1	4
136	Electrodeposition of Cu2Se Semiconductor Thin Film on Se-Modified Polycrystalline Au Electrode. Journal of Electrochemical Science and Technology, 2013, 4, 140-145.	2.2	4
137	Editorsâ€™ Choiceâ€”Perspectiveâ€”Bipolar Photoactivity: The Anomalous Case of Electrodeposited Copper Oxide Films. Journal of the Electrochemical Society, 2020, 167, 136505.	2.9	3
138	New-Generation Oxide Semiconductors for Solar Energy Conversion and Environmental Remediation. Journal of Nano Research, 2012, 17, 185-191.	0.8	2
139	Calorimetric Response of Fossil Fuel Systems: Prospects and Problems. , 1984, , 113-131.		2
140	Photoelectrochemistry, Fundamentals and Applications. , 2014, , 1550-1556.		2
141	In situ photogeneration of a catalyst on a chemically modified electrode surface: application to a mixed-valent hexacyanoferrate system. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 295, 403-407.	0.1	1
142	Metal Hexacyanoferrates: Electrosynthesis, in situ Characterization and Applications. ChemInform, 2003, 34, no.	0.0	1
143	Photoelectrolysis of Aqueous Lignite and Carbon Black Slurry Suspensions. Electrochemical and Solid-State Letters, 2011, 14, E31.	2.2	1
144	Chemical Pre-Treatment of Coal and Carbon Black: Implications for Electrolytic Hydrogen Generation and Electrochemical/Thermal Reactivity. Journal of the Electrochemical Society, 2012, 159, B695-B701.	2.9	1

#	Article	IF	Citations
145	Cathodic Electrodeposition of Stoichiometric Cobalt Chalcogenide Thin Films. ECS Journal of Solid State Science and Technology, 2020, 9, 041013.	1.8	1