

Jeremy J Pietron

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1322313/publications.pdf>

Version: 2024-02-01

64
papers

4,427
citations

201674

27
h-index

133252

59
g-index

66
all docs

66
docs citations

66
times ranked

5650
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Nanoelectrodes of Varied Size: Transition to Molecule-Like Charging. <i>Science</i> , 1998, 280, 2098-2101.	12.6	1,018
2	Solvent Refractive Index and Core Charge Influences on the Surface Plasmon Absorbance of Alkanethiolate Monolayer-Protected Gold Clusters. <i>Journal of Physical Chemistry B</i> , 2000, 104, 564-570.	2.6	508
3	High Power Density from a Miniature Microbial Fuel Cell Using <i>Shewanella oneidensis</i> DSP10. <i>Environmental Science & Technology</i> , 2006, 40, 2629-2634.	10.0	488
4	Electronic Conductivity of Solid-State, Mixed-Valent, Monolayer-Protected Au Clusters. <i>Journal of the American Chemical Society</i> , 2000, 122, 11465-11472.	13.7	283
5	A biofilm enhanced miniature microbial fuel cell using <i>Shewanella oneidensis</i> DSP10 and oxygen reduction cathodes. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1672-1679.	10.1	172
6	Using Three Dimensions in Catalytic Mesoporous Nanoarchitectures. <i>Nano Letters</i> , 2002, 2, 545-549.	9.1	147
7	Three-Dimensional Monolayers: Å Nanometer-Sized Electrodes of Alkanethiolate-Stabilized Gold Cluster Molecules. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2663-2668.	2.6	137
8	Plasmonic enhancement of visible-light water splitting with Au@TiO ₂ composite aerogels. <i>Nanoscale</i> , 2013, 5, 8073.	5.6	130
9	Graphitic biochar as a cathode electrocatalyst support for microbial fuel cells. <i>Bioresource Technology</i> , 2015, 195, 147-153.	9.6	124
10	The influence of acidity on microbial fuel cells containing <i>Shewanella oneidensis</i> . <i>Biosensors and Bioelectronics</i> , 2008, 24, 900-905.	10.1	108
11	Using Electrons Stored on Quantized Capacitors in Electron Transfer Reactions. <i>Journal of the American Chemical Society</i> , 1999, 121, 5565-5570.	13.7	97
12	Three-Dimensional Monolayers: Å Voltammetry of Alkanethiolate-Stabilized Gold Cluster Molecules. <i>Langmuir</i> , 1998, 14, 5612-5619.	3.5	90
13	Silica Nanoarchitectures Incorporating Self-Organized Protein Superstructures with Gas-Phase Bioactivity. <i>Nano Letters</i> , 2003, 3, 1463-1467.	9.1	84
14	Oxidation-stable plasmonic copper nanoparticles in photocatalytic TiO ₂ nanoarchitectures. <i>Nanoscale</i> , 2017, 9, 11720-11729.	5.6	76
15	Characterization of electrochemically active bacteria utilizing a high-throughput voltage-based screening assay. <i>Biotechnology and Bioengineering</i> , 2009, 102, 436-444.	3.3	74
16	Enhanced Oxygen Reduction Activity in Acid by Tin-Oxide Supported Au Nanoparticle Catalysts. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1702.	2.9	53
17	Triarylphosphine-Stabilized Platinum Nanoparticles in Three-Dimensional Nanostructured Films as Active Electrocatalysts. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21487-21496.	2.6	52
18	Ultraviolet and Visible Photochemistry of Methanol at 3D Mesoporous Networks: TiO ₂ and Au@TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2013, 117, 15035-15049.	3.1	49

#	ARTICLE	IF	CITATIONS
19	Low-temperature CO oxidation at persistent low-valent Cu nanoparticles on TiO ₂ aerogels. <i>Applied Catalysis B: Environmental</i> , 2019, 252, 205-213.	20.2	47
20	Mediated Electrocatalysis with Polyanthraquinone-Functionalized Monolayer-Protected Clusters. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4440-4446.	2.6	46
21	Correlating Changes in Electron Lifetime and Mobility on Photocatalytic Activity at Network-Modified TiO ₂ Aerogels. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17529-17538.	3.1	42
22	The utility of <i>Shewanella japonica</i> for microbial fuel cells. <i>Bioresource Technology</i> , 2011, 102, 290-297.	9.6	41
23	Direct methanol oxidation at low overpotentials using Pt nanoparticles electrodeposited at ultrathin conductive RuO ₂ nanoskins. <i>Journal of Materials Chemistry</i> , 2012, 22, 5197.	6.7	36
24	Dye-sensitized titania aerogels as photovoltaic electrodes for electrochemical solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 1066-1074.	6.2	35
25	Plasmonic Aerogels as a Three-Dimensional Nanoscale Platform for Solar Fuel Photocatalysis. <i>Langmuir</i> , 2017, 33, 9444-9454.	3.5	33
26	Using an Oxide Nanoarchitecture To Make or Break a Proton Wire. <i>Analytical Chemistry</i> , 2005, 77, 7924-7932.	6.5	31
27	Post-column derivatization in narrow-bore capillaries for the analysis of amino acids and proteins by capillary electrophoresis with fluorescence detection. <i>Journal of Separation Science</i> , 1994, 6, 373-384.	1.0	30
28	Photoenhanced Degradation of Sarin at Cu/TiO ₂ Composite Aerogels: Roles of Bandgap Excitation and Surface Plasmon Excitation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12550-12561.	8.0	26
29	Photocatalytic CO Oxidation over Nanoparticulate Au-Modified TiO ₂ Aerogels: The Importance of Size and Intimacy. <i>ACS Catalysis</i> , 2020, 10, 14834-14846.	11.2	25
30	The effect of particle size and protein content on nanoparticle-gold-nucleated cytochrome c superstructures encapsulated in silica nanoarchitectures. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 31-38.	3.1	24
31	Characterization of Ligand Effects on Water Activation in Triarylphosphine-Stabilized Pt Nanoparticle Catalysts by X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4961-4970.	3.1	24
32	Electrical and electrochemical characterization of proton transfer at the interface between chitosan and PdH _x . <i>Journal of Materials Chemistry C</i> , 2017, 5, 11083-11091.	5.5	23
33	A practical guide to transmission electron microscopy of aerogels. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 277-284.	3.1	22
34	Electronic Metal-Support Interactions in the Activation of CO Oxidation over a Cu/TiO ₂ Aerogel Catalyst. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21491-21501.	3.1	21
35	Mesoporous Copper Nanoparticle/TiO ₂ Aerogels for Room-Temperature Hydrolytic Decomposition of the Chemical Warfare Simulant Dimethyl Methylphosphonate. <i>ACS Applied Nano Materials</i> , 2020, 3, 3503-3512.	5.0	21
36	Electrochemical Observation of Ligand Effects on Oxygen Reduction at Ligand-Stabilized Pt Nanoparticle Electrocatalysts. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, B161.	2.2	18

#	ARTICLE	IF	CITATIONS
37	The role of photonics in energy. <i>Journal of Photonics for Energy</i> , 2015, 5, 050997.	1.3	18
38	Improving the efficiency of titania aerogel-based photovoltaic electrodes by electrochemically grafting isopropyl moieties on the titania surface. <i>Journal of Non-Crystalline Solids</i> , 2004, 350, 107-112.	3.1	17
39	Electrochemical Modulation of Strong Vibrationâ€“Cavity Coupling. <i>ACS Photonics</i> , 2020, 7, 165-173.	6.6	16
40	Energy-tunable photocatalysis by hot carriers generated by surface plasmon polaritons. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7015-7024.	10.3	15
41	Review of roles for photonic crystals in solar fuels photocatalysis. <i>Journal of Photonics for Energy</i> , 2016, 7, 012007.	1.3	14
42	Power of Aerogel Platforms to Explore Mesoscale Transport in Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41277-41287.	8.0	13
43	Electrochemically induced surface modification of titanols in a `nanoglued' titania aerogelâ€“silica aerogel composite film. <i>Journal of Non-Crystalline Solids</i> , 2001, 285, 13-21.	3.1	12
44	Measurement of Benzenethiol Adsorption to Nanostructured Pt, Pd, and PtPd Films Using Raman Spectroelectrochemistry. <i>Langmuir</i> , 2010, 26, 6809-6817.	3.5	12
45	Stabilization of reduced copper on ceria aerogels for CO oxidation. <i>Nanoscale Advances</i> , 2020, 2, 4547-4556.	4.6	12
46	Dual-Pathway Kinetics Assessment of Sulfur Poisoning of the Hydrogen Oxidation Reaction at High Surface-Area Platinum/Vulcan Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2009, 156, B1322.	2.9	10
47	Impact of Sulfur Dioxide on the Performance of the PEMFC Cathodes. <i>ECS Transactions</i> , 2006, 3, 685-694.	0.5	7
48	Metal Carbide-Based Hydrodesulfurization Catalysts as Sulfur-Tolerant Electrocatalysts for PEMFC Anodes. <i>ECS Transactions</i> , 2006, 3, 471-477.	0.5	7
49	Review of the Effects of Polymer Binder Properties on Microstructure and Irreversible Volume Growth of Plastic Bonded Explosives Formulations. <i>Propellants, Explosives, Pyrotechnics</i> , 2022, 47, .	1.6	7
50	Enhanced protonic conductivity and IFET behavior in individual proton-doped electrospun chitosan fibers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10833-10840.	5.5	6
51	Electrocatalysis at Coâ€“poly(difluoropyrrole) electrodeposited on Vulcan carbon supports: demonstration of halogenated polypyrrole as an electrocatalytic material. <i>Journal of Materials Chemistry</i> , 2011, 21, 7668.	6.7	5
52	Leveraging Metal-Support Interactions to Improve the Activity of PEMFC Cathode Catalysts. <i>ECS Transactions</i> , 2006, 1, 97-105.	0.5	3
53	Electrochemical Observation of Ligand Effects on Oxygen Reduction at Ligand-Stabilized Pt Nanoparticle Electrocatalysts. <i>ECS Transactions</i> , 2007, 11, 217-226.	0.5	3
54	Controlling the Sensitivity, Specificity, and Time Signature of Sensors through Architectural Design on the Nanoscale. <i>ECS Transactions</i> , 2009, 19, 171-179.	0.5	3

#	ARTICLE	IF	CITATIONS
55	A Raman spectroelectrochemical study of potential-controlled benzenethiol desorption from Pt-Fe group alloy films. <i>Journal of Power Sources</i> , 2012, 212, 212-219.	7.8	3
56	Electrochemical Deposition and Spectroelectrochemical Response of Bromophenol Blue Films on Gold. <i>Electroanalysis</i> , 2015, 27, 1960-1967.	2.9	2
57	Dual-Pathway Kinetics Assessment of Sulfur Poisoning of the Hydrogen Oxidation Reaction at High-Surface-Area Platinum/Vulcan Carbon Electrodes. <i>ECS Transactions</i> , 2007, 11, 843-851.	0.5	1
58	Mesoporous, microporous and nanowired: electron microscopy of aerogel composites. <i>Microscopy and Microanalysis</i> , 2002, 8, 1240-1241.	0.4	0
59	Impact of Sulfur Dioxide on the Performance of PEMFC Cathodes. <i>ECS Transactions</i> , 2006, 1, 103-109.	0.5	0
60	Electrochemically Active Soluble Mediators from <i>Shewanella oneidensis</i> : Relevance to Microbial Fuel Cells and Extracellular Electron Transfer. <i>ECS Meeting Abstracts</i> , 2008, , .	0.0	0
61	Aberration-corrected Scanning Transmission Electron Microscopy and Spectroscopy of Nonprecious Metal Nanoparticles in Titania Aerogels. <i>Microscopy and Microanalysis</i> , 2016, 22, 324-325.	0.4	0
62	Fabrication of High-Aspect Ratio (HAR) Palladium Nanorod-Modified Electrodes for Raman Spectroelectrochemical Studies of Thiolate Desorption from HAR Nanomaterials. <i>Electroanalysis</i> , 2016, 28, 1553-1561.	2.9	0
63	(Invited) Nanoscale Design and Modification of Plasmonic Aerogels for Photocatalytic Hydrogen Generation. <i>ECS Meeting Abstracts</i> , 2018, MA2018-01, 1871-1871.	0.0	0
64	Protons in Catalytic Architectures: Near (NMR) and Far (Impedance). <i>Journal of the Electrochemical Society</i> , 2022, 169, 036514.	2.9	0