Pekka Peljo

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2983598/publications.pdf

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64	2,320	236925	214800
papers	citations	25 h-index	47 g-index

67	67	67	2986
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organic Redox Flow Batteries: Insights from Experimental and Numerical Study. ECS Meeting Abstracts, 2022, MA2022-01, 2020-2020.	0.0	0
2	Thermodynamics, Charge Transfer and Practical Considerations of Solid Boosters in Redox Flow Batteries. Molecules, 2021, 26, 2111.	3.8	13
3	Ionosomes: Observation of Ionic Bilayer Water Clusters. Journal of the American Chemical Society, 2021, 143, 7671-7680.	13.7	22
4	Electrocatalyst nanoparticles go with the flow. Nature Catalysis, 2021, 4, 445-446.	34.4	0
5	Oxygen Absorption in Electrocatalyst Layers Detected by Scanning Electrochemical Microscopy. ChemElectroChem, 2021, 8, 2950-2955.	3.4	1
6	Recent trends in thermoelectrochemical cells and thermally regenerative batteries. Current Opinion in Electrochemistry, 2021, 30, 100853.	4.8	6
7	Suitability of Ethyl Cellulose As a Binder in Positive Electrode of Aqueous Battery. ECS Meeting Abstracts, 2021, MA2021-02, 59-59.	0.0	0
8	Structure and reactivity of the polarised liquidâ€“liquid interface: what we know and what we do not. Current Opinion in Electrochemistry, 2020, 19, 137-143.	4.8	23
9	Thermally regenerative copper nanoslurry flow batteries for heat-to-power conversion with low-grade thermal energy. Energy and Environmental Science, 2020, 13, 2191-2199.	30.8	51
10	Mesoporous Single-Atom-Doped Grapheneâ€“Carbon Nanotube Hybrid: Synthesis and Tunable Electrocatalytic Activity for Oxygen Evolution and Reduction Reactions. ACS Catalysis, 2020, 10, 4647-4658.	11.2	100
11	Membraneless energy conversion and storage using immiscible electrolyte solutions. Current Opinion in Electrochemistry, 2020, 21, 100-108.	4.8	22
12	Vanadiumâ€“Manganese Redox Flow Battery: Study of Mn^{III} Disproportionation in the Presence of Other Metallic Ions. Chemistry - A European Journal, 2020, 26, 7250-7257.	3.3	36
13	Solid electrochemical energy storage for aqueous redox flow batteries: The case of copper hexacyanoferrate. Electrochimica Acta, 2019, 321, 134704.	5.2	30
14	Mechanistic Study on the Photogeneration of Hydrogen by Decamethylruthenocene. Chemistry - A European Journal, 2019, 25, 12769-12779.	3.3	9
15	Closed bipolar electrochemistry in a four-electrode configuration. Physical Chemistry Chemical Physics, 2019, 21, 9627-9640.	2.8	24
16	Solvent effect in photo-ionic cells. Journal of Electroanalytical Chemistry, 2018, 816, 242-252.	3.8	6
17	Electrochemical Dynamics of a Single Platinum Nanoparticle Collision Event for the Hydrogen Evolution Reaction. Angewandte Chemie, 2018, 130, 3522-3526.	2.0	37
18	Semi-analytical modelling of linear scan voltammetric responses for soluble-insoluble system: The case of metal deposition. Journal of Electroanalytical Chemistry, 2018, 818, 35-43.	3.8	13

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19	Gold Raspberry-Like Colloidosomes Prepared at the Waterâ€“Nitromethane Interface. Langmuir, 2018, 34, 2758-2763.	3.5	7
20	Electrochemical Dynamics of a Single Platinum Nanoparticle Collision Event for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2018, 57, 3464-3468.	13.8	68
21	Gold Nanofilms at Liquidâ€“Liquid Interfaces: An Emerging Platform for Redox Electrocatalysis, Nanoplasmonic Sensors, and Electrovariable Optics. Chemical Reviews, 2018, 118, 3722-3751.	47.7	113
22	Simulations employing finite element method at liquid|liquid interfaces. Current Opinion in Electrochemistry, 2018, 7, 200-207.	4.8	10
23	Electrochemical potential window of battery electrolytes: the HOMOâ€“LUMO misconception. Energy and Environmental Science, 2018, 11, 2306-2309.	30.8	341
24	Effect of Chaotropes on the Transfer of Ions and Dyes across the Liquidâ€“Liquid Interface. Journal of Physical Chemistry C, 2018, 122, 18510-18519.	3.1	8
25	Redox Flow Batteries for Fast EV Charging and for Hydrogen Production for FCEVs. ECS Meeting Abstracts, 2018, , .	0.0	0
26	Energy Storage and Heat to Power Conversion and with Non-Aqueous All Copper Redox Flow Batteries. ECS Meeting Abstracts, 2018, , .	0.0	0
27	Electron Transfer Reactions at Liquid-Liquid Interfaces. ECS Meeting Abstracts, 2018, , .	0.0	0
28	Photoproduction of Hydrogen by Decamethylruthenocene Combined with Electrochemical Recycling. Angewandte Chemie - International Edition, 2017, 56, 2324-2327.	13.8	24
29	Electrovariable gold nanoparticle films at liquidâ€“liquid interfaces: from redox electrocatalysis to Marangoni-shutters. Faraday Discussions, 2017, 199, 565-583.	3.2	16
30	Photoproduction of Hydrogen by Decamethylruthenocene Combined with Electrochemical Recycling. Angewandte Chemie, 2017, 129, 2364-2367.	2.0	6
31	Variation of the Fermi level and the electrostatic force of a metallic nanoparticle upon colliding with an electrode. Chemical Science, 2017, 8, 4795-4803.	7.4	24
32	Understanding Digestive Ripening of Ligand-Stabilized, Charged Metal Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 13405-13411.	3.1	15
33	Redox Solid Energy Boosters for Flow Batteries: Polyaniline as a Case Study. Electrochimica Acta, 2017, 235, 664-671.	5.2	60
34	Self-assembly and redox induced phase transfer of gold nanoparticles at a waterâ€“propylene carbonate interface. Chemical Communications, 2017, 53, 4108-4111.	4.1	17
35	Redox Electrocatalysis of Floating Nanoparticles: Determining Electrocatalytic Properties without the Influence of Solid Supports. Journal of Physical Chemistry Letters, 2017, 8, 3564-3575.	4.6	46
36	Single Organic Droplet Collision Voltammogram via Electron Transfer Coupled Ion Transfer. Analytical Chemistry, 2017, 89, 9284-9291.	6.5	32

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37	Mediated water electrolysis in biphasic systems. Physical Chemistry Chemical Physics, 2017, 19, 22700-22710.	2.8	10
38	Enhanced Reactivity of Water Clusters towards Oxidation in Water/Acetonitrile Mixtures. ChemElectroChem, 2016, 3, 2003-2007.	3.4	6
39	High energy density MnO₄^{â˜’}/MnO₄^{2â˜’} redox couple for alkaline redox flow batteries. Chemical Communications, 2016, 52, 14039-14042.	4.1	26
40	Contact Potentials, Fermi Level Equilibration, and Surface Charging. Langmuir, 2016, 32, 5765-5775.	3.5	63
41	Ion transfer battery: storing energy by transferring ions across liquidâ€“liquid interfaces. Chemical Communications, 2016, 52, 9761-9764.	4.1	20
42	Heterogeneous versus homogeneous electron transfer reactions at liquidâ€“liquid interfaces: The wrong question?. Journal of Electroanalytical Chemistry, 2016, 779, 187-198.	3.8	24
43	Self-healing gold mirrors and filters at liquidâ€“liquid interfaces. Nanoscale, 2016, 8, 7723-7737.	5.6	35
44	Charge distribution and Fermi level in bimetallic nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 2924-2931.	2.8	47
45	All-vanadium dual circuit redox flow battery for renewable hydrogen generation and desulfurisation. Green Chemistry, 2016, 18, 1785-1797.	9.0	40
46	Gold Nanofilm Redox Catalysis for Oxygen Reduction at Soft Interfaces. Electrochimica Acta, 2016, 197, 362-373.	5.2	49
47	Redox Flow Batteries, Hydrogen and Distributed Storage. Chimia, 2015, 69, 753.	0.6	21
48	Chaotropic Agents Boosting the Performance of Photoionic Cells. Journal of Physical Chemistry C, 2015, 119, 4728-4735.	3.1	12
49	Interfacial Redox Catalysis on Gold Nanofilms at Soft Interfaces. ACS Nano, 2015, 9, 6565-6575.	14.6	74
50	Charging and discharging at the nanoscale: Fermi level equilibration of metallic nanoparticles. Chemical Science, 2015, 6, 2705-2720.	7.4	173
51	Decamethylruthenocene Hydride and Hydrogen Formation at Liquid|Liquid Interfaces. Journal of Physical Chemistry C, 2015, 119, 25761-25769.	3.1	31
52	Surprising acidity of hydrated lithium cations in organic solvents. Chemical Communications, 2014, 50, 5554-5557.	4.1	23
53	Towards a thermally regenerative all-copper redox flow battery. Physical Chemistry Chemical Physics, 2014, 16, 2831.	2.8	52
54	Kinetic differentiation of bulk/interfacial oxygen reduction mechanisms at/near liquid/liquid interfaces using scanning electrochemical microscopy. Journal of Electroanalytical Chemistry, 2014, 732, 101-109.	3.8	18

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55	Mechanism of oxygen reduction by metallocenes near liquid|liquid interfaces. Journal of Electroanalytical Chemistry, 2014, 729, 43-52.	3.8	23
56	Photo-Ionic Cells: Two Solutions to Store Solar Energy and Generate Electricity on Demand. Journal of Physical Chemistry C, 2014, 118, 16872-16883.	3.1	13
57	Electrochemical oxygen reduction at soft interfaces catalyzed by the transfer of hydrated lithium cations. Journal of Electroanalytical Chemistry, 2014, 731, 28-35.	3.8	27
58	Electrochemically Controlled Protonâ€Transferâ€Catalyzed Reactions at Liquidâ€“Liquid Interfaces: Nucleophilic Substitution on Ferrocene Methanol. ChemPhysChem, 2013, 14, 311-314.	2.1	20
59	Parylene C coated microelectrodes for scanning electrochemical microscopy. Electrochimica Acta, 2013, 110, 22-29.	5.2	14
60	Biomimetic Oxygen Reduction by Cofacial Porphyrins at a Liquidâ€“Liquid Interface. Journal of the American Chemical Society, 2012, 134, 5974-5984.	13.7	118
61	Oxygen and hydrogen peroxide reduction by 1,2-diferrocenylethane at a liquid/liquid interface. Journal of Electroanalytical Chemistry, 2012, 681, 16-23.	3.8	24
62	Hydrogen evolution across nano-Schottky junctions at carbon supported MoS2 catalysts in biphasic liquid systems. Chemical Communications, 2012, 48, 6484.	4.1	113
63	Oxygen reduction at a water-1,2-dichlorobenzene interface catalyzed by cobalt tetraphenyl porphyrine â€“ A fuel cell approach. International Journal of Hydrogen Energy, 2011, 36, 10033-10043.	7.1	37
64	Methanol, Ethanol and Iso-Propanol Performance in Alkaline Direct Alcohol Fuel Cell (ADAFC). ECS Transactions, 2010, 33, 1701-1714.	0.5	9