# Pekka Peljo

List of Publications by Year
in descending order

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

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|---|---|---|---|
| 64<br>papers | 2,320<br>citations | 236925<br>25<br>h-index | 214800<br>47<br>g-index |
| 67<br>all docs | 67<br>docs citations | 67<br>times ranked | 2986<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Electrochemical potential window of battery electrolytes: the HOMOâ€"LUMO misconception. Energy and Environmental Science, 2018, 11, 2306-2309. | 30.8 | 341 |
| 2 | Charging and discharging at the nanoscale: Fermi level equilibration of metallic nanoparticles. Chemical Science, 2015, 6, 2705-2720. | 7.4 | 173 |
| 3 | Biomimetic Oxygen Reduction by Cofacial Porphyrins at a Liquidâ€"Liquid Interface. Journal of the American Chemical Society, 2012, 134, 5974-5984. | 13.7 | 118 |
| 4 | Hydrogen evolution across nano-Schottky junctions at carbon supported MoS2 catalysts in biphasic liquid systems. Chemical Communications, 2012, 48, 6484. | 4.1 | 113 |
| 5 | 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 |
| 6 | 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 |
| 7 | Interfacial Redox Catalysis on Gold Nanofilms at Soft Interfaces. ACS Nano, 2015, 9, 6565-6575. | 14.6 | 74 |
| 8 | 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 |
| 9 | Contact Potentials, Fermi Level Equilibration, and Surface Charging. Langmuir, 2016, 32, 5765-5775. | 3.5 | 63 |
| 10 | Redox Solid Energy Boosters for Flow Batteries: Polyaniline as a Case Study. Electrochimica Acta, 2017, 235, 664-671. | 5.2 | 60 |
| 11 | Towards a thermally regenerative all-copper redox flow battery. Physical Chemistry Chemical Physics, 2014, 16, 2831. | 2.8 | 52 |
| 12 | 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 |
| 13 | Gold Nanofilm Redox Catalysis for Oxygen Reduction at Soft Interfaces. Electrochimica Acta, 2016, 197, 362-373. | 5.2 | 49 |
| 14 | Charge distribution and Fermi level in bimetallic nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 2924-2931. | 2.8 | 47 |
| 15 | 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 |
| 16 | All-vanadium dual circuit redox flow battery for renewable hydrogen generation and desulfurisation. Green Chemistry, 2016, 18, 1785-1797. | 9.0 | 40 |
| 17 | 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 |
| 18 | Electrochemical Dynamics of a Single Platinum Nanoparticle Collision Event for the Hydrogen Evolution Reaction. Angewandte Chemie, 2018, 130, 3522-3526. | 2.0 | 37 |

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|---|---|---|---|
| 19 | Vanadiumâ€"Manganese Redox Flow Battery: Study of Mn<sup>III</sup> Disproportionation in the Presence of Other Metallic Ions. Chemistry - A European Journal, 2020, 26, 7250-7257. | 3.3 | 36 |
| 20 | Self-healing gold mirrors and filters at liquidâ€"liquid interfaces. Nanoscale, 2016, 8, 7723-7737. | 5.6 | 35 |
| 21 | Single Organic Droplet Collision Voltammogram via Electron Transfer Coupled Ion Transfer. Analytical Chemistry, 2017, 89, 9284-9291. | 6.5 | 32 |
| 22 | Decamethylruthenocene Hydride and Hydrogen Formation at Liquid\|Liquid Interfaces. Journal of Physical Chemistry C, 2015, 119, 25761-25769. | 3.1 | 31 |
| 23 | Solid electrochemical energy storage for aqueous redox flow batteries: The case of copper hexacyanoferrate. Electrochimica Acta, 2019, 321, 134704. | 5.2 | 30 |
| 24 | 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 |
| 25 | High energy density MnO<sub>4</sub><sup>â^'</sup>/MnO<sub>4</sub><sup>2â^'</sup> redox couple for alkaline redox flow batteries. Chemical Communications, 2016, 52, 14039-14042. | 4.1 | 26 |
| 26 | 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 |
| 27 | Heterogeneous versus homogeneous electron transfer reactions at liquidâ€"liquid interfaces: The wrong question?. Journal of Electroanalytical Chemistry, 2016, 779, 187-198. | 3.8 | 24 |
| 28 | Photoproduction of Hydrogen by Decamethylruthenocene Combined with Electrochemical Recycling. Angewandte Chemie - International Edition, 2017, 56, 2324-2327. | 13.8 | 24 |
| 29 | 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 |
| 30 | Closed bipolar electrochemistry in a four-electrode configuration. Physical Chemistry Chemical Physics, 2019, 21, 9627-9640. | 2.8 | 24 |
| 31 | Surprising acidity of hydrated lithium cations in organic solvents. Chemical Communications, 2014, 50, 5554-5557. | 4.1 | 23 |
| 32 | Mechanism of oxygen reduction by metallocenes near liquid\|liquid interfaces. Journal of Electroanalytical Chemistry, 2014, 729, 43-52. | 3.8 | 23 |
| 33 | 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 |
| 34 | Membraneless energy conversion and storage using immiscible electrolyte solutions. Current Opinion in Electrochemistry, 2020, 21, 100-108. | 4.8 | 22 |
| 35 | Ionosomes: Observation of Ionic Bilayer Water Clusters. Journal of the American Chemical Society, 2021, 143, 7671-7680. | 13.7 | 22 |
| 36 | Redox Flow Batteries, Hydrogen and Distributed Storage. Chimia, 2015, 69, 753. | 0.6 | 21 |

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|---|---|---|---|
| 37 | Electrochemically Controlled Protonâ€Transferâ€Catalyzed Reactions at Liquidâ€"Liquid Interfaces: Nucleophilic Substitution on Ferrocene Methanol. ChemPhysChem, 2013, 14, 311-314. | 2.1 | 20 |
| 38 | Ion transfer battery: storing energy by transferring ions across liquidâ€"liquid interfaces. Chemical Communications, 2016, 52, 9761-9764. | 4.1 | 20 |
| 39 | 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 |
| 40 | 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 |
| 41 | Electrovariable gold nanoparticle films at liquidâ€"liquid interfaces: from redox electrocatalysis to Marangoni-shutters. Faraday Discussions, 2017, 199, 565-583. | 3.2 | 16 |
| 42 | Understanding Digestive Ripening of Ligand-Stabilized, Charged Metal Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 13405-13411. | 3.1 | 15 |
| 43 | Parylene C coated microelectrodes for scanning electrochemical microscopy. Electrochimica Acta, 2013, 110, 22-29. | 5.2 | 14 |
| 44 | 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 |
| 45 | 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 |
| 46 | Thermodynamics, Charge Transfer and Practical Considerations of Solid Boosters in Redox Flow Batteries. Molecules, 2021, 26, 2111. | 3.8 | 13 |
| 47 | Chaotropic Agents Boosting the Performance of Photoionic Cells. Journal of Physical Chemistry C, 2015, 119, 4728-4735. | 3.1 | 12 |
| 48 | Mediated water electrolysis in biphasic systems. Physical Chemistry Chemical Physics, 2017, 19, 22700-22710. | 2.8 | 10 |
| 49 | Simulations employing finite element method at liquid \| liquid interfaces. Current Opinion in Electrochemistry, 2018, 7, 200-207. | 4.8 | 10 |
| 50 | Methanol, Ethanol and Iso-Propanol Performance in Alkaline Direct Alcohol Fuel Cell (ADAFC). ECS Transactions, 2010, 33, 1701-1714. | 0.5 | 9 |
| 51 | Mechanistic Study on the Photogeneration of Hydrogen by Decamethylruthenocene. Chemistry - A European Journal, 2019, 25, 12769-12779. | 3.3 | 9 |
| 52 | 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 |
| 53 | Gold Raspberry-Like Colloidosomes Prepared at the Waterâ€"Nitromethane Interface. Langmuir, 2018, 34, 2758-2763. | 3.5 | 7 |
| 54 | Enhanced Reactivity of Water Clusters towards Oxidation in Water/Acetonitrile Mixtures. ChemElectroChem, 2016, 3, 2003-2007. | 3.4 | 6 |

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| 55 | Photoproduction of Hydrogen by Decamethylruthenocene Combined with Electrochemical Recycling. Angewandte Chemie, 2017, 129, 2364-2367. | 2.0 | 6 |
| 56 | Solvent effect in photo-ionic cells. Journal of Electroanalytical Chemistry, 2018, 816, 242-252. | 3.8 | 6 |
| 57 | Recent trends in thermoelectrochemical cells and thermally regenerative batteries. Current Opinion in Electrochemistry, 2021, 30, 100853. | 4.8 | 6 |
| 58 | Oxygen Absorption in Electrocatalyst Layers Detected by Scanning Electrochemical Microscopy. ChemElectroChem, 2021, 8, 2950-2955. | 3.4 | 1 |
| 59 | Electrocatalyst nanoparticles go with the flow. Nature Catalysis, 2021, 4, 445-446. | 34.4 | 0 |
| 60 | Redox Flow Batteries for Fast EV Charging and for Hydrogen Production for FCEVs. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 61 | Energy Storage and Heat to Power Conversion and with Non-Aqueous All Copper Redox Flow Batteries. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 62 | Electron Transfer Reactions at Liquid-Liquid Interfaces. ECS Meeting Abstracts, 2018, , . | 0.0 | 0 |
| 63 | Suitability of Ethyl Cellulose As a Binder in Positive Electrode of Aqueous Battery. ECS Meeting Abstracts, 2021, MA2021-02, 59-59. | 0.0 | 0 |
| 64 | Organic Redox Flow Batteries: Insights from Experimental and Numerical Study. ECS Meeting Abstracts, 2022, MA2022-01, 2020-2020. | 0.0 | 0 |