Mark D Pritzker

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | In-plane and through-plane gas permeability of carbon fiber electrode backing layers. Journal of Power Sources, 2006, 162, 228-238. | 7.8 | 446 |
| 2 | Capillary pressure and hydrophilic porosity in gas diffusion layers for polymer electrolyte fuel cells. Journal of Power Sources, 2006, 156, 375-387. | 7.8 | 354 |
| 3 | Pore network modeling of fibrous gas diffusion layers for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2007, 173, 277-290. | 7.8 | 308 |
| 4 | On the role of the microporous layer in PEMFC operation. Electrochemistry Communications, 2009, 11, 576-579. | 4.7 | 241 |
| 5 | Development and Simulation of Sulfurâ€doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction. Advanced Functional Materials, 2014, 24, 4325-4336. | 14.9 | 214 |
| 6 | Wettability and capillary behavior of fibrous gas diffusion media for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2009, 194, 433-444. | 7.8 | 131 |
| 7 | Multigrain Platinum Nanowires Consisting of Oriented Nanoparticles Anchored on Sulfurâ€Doped Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst. Advanced Materials, 2015, 27, 1229-1234. | 21.0 | 126 |
| 8 | Direct measurement of the capillary pressure characteristics of water–air–gas diffusion layer systems for PEM fuel cells. Electrochemistry Communications, 2008, 10, 1520-1523. | 4.7 | 98 |
| 9 | Use of pervaporation for the separation of phenol from dilute aqueous solutions. Journal of Membrane Science, 2009, 335, 96-102. | 8.2 | 84 |
| 10 | Modification of Hydrophilic and Hydrophobic Surfaces Using an Ionic-Complementary Peptide. PLoS ONE, 2007, 2, e1325. | 2.5 | 75 |
| 11 | Metal and Metal Oxide Electrocatalysts for Redox Flow Batteries. Advanced Functional Materials, 2020, 30, 1910564. | 14.9 | 69 |
| 12 | Surface-Assisted Assembly of an Ionic-Complementary Peptide:  Controllable Growth of Nanofibers. Journal of the American Chemical Society, 2007, 129, 12200-12210. | 13.7 | 68 |
| 13 | Effect of plating mode, thiourea and chloride on the morphology of copper deposits produced in acidic sulphate solutions. Electrochimica Acta, 2005, 50, 1849-1861. | 5.2 | 67 |
| 14 | Effect of NaCl and peptide concentration on the self-assembly of an ionic-complementary peptide EAK16-II. Colloids and Surfaces B: Biointerfaces, 2005, 46, 152-161. | 5.0 | 65 |
| 15 | Optimization of sulfur-doped graphene as an emerging platinum nanowires support for oxygen reduction reaction. Nano Energy, 2016, 19, 27-38. | 16.0 | 58 |
| 16 | Web-like 3D Architecture of Pt Nanowires and Sulfur-Doped Carbon Nanotube with Superior Electrocatalytic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 93-98. | 6.7 | 57 |
| 17 | Proton uptake by poly(2-vinylpyridine) coatings. Journal of Applied Polymer Science, 2001, 81, 1493-1497. | 2.6 | 55 |
| 18 | Morphological stability of a planar metal electrode during potentiostatic electrodeposition and electrodissolution. Electrochimica Acta, 1992, 37, 103-112. | 5.2 | 54 |

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|----|--|-----|-----------|
| 19 | Impact of Liquid Water on Reactant Mass Transfer in PEM Fuel Cell Electrodes. Journal of the Electrochemical Society, 2010, 157, B563. | 2.9 | 54 |
| 20 | Global Optimization of Reverse Osmosis Network for Wastewater Treatment and Minimization. Industrial & Engineering Chemistry Research, 2008, 47, 3060-3070. | 3.7 | 48 |
| 21 | Formation of Co–Ni alloy coatings under direct current, pulse current and pulse-reverse plating conditions. Electrochimica Acta, 2012, 62, 63-72. | 5.2 | 48 |
| 22 | Peptide and peptide-carbon nanotube hydrogels as scaffolds for tissue & 3D tumor engineering. Acta Biomaterialia, 2018, 69, 107-119. | 8.3 | 47 |
| 23 | Model for Nickelâ€Iron Alloy Electrodeposition on a Rotating Disk Electrode. Journal of the Electrochemical Society, 1997, 144, 960-969. | 2.9 | 44 |
| 24 | Unipolar pulse electrodeposition of nickel hexacyanoferrate thin films with controllable structure on platinum substrates. Thin Solid Films, 2012, 520, 2438-2448. | 1.8 | 43 |
| 25 | Control of Cu 2 O Film Morphology Using Potentiostatic Pulsed Electrodeposition. Electrochimica Acta, 2016, 213, 225-235. | 5.2 | 41 |
| 26 | Mesoscopic modeling of Li insertion in phase-separating electrode materials: application to lithium iron phosphate. Physical Chemistry Chemical Physics, 2014, 16, 22555-22565. | 2.8 | 40 |
| 27 | Co–Ni alloy electrodeposition under different conditions of pH, current and composition. Electrochimica Acta, 2012, 65, 234-243. | 5.2 | 36 |
| 28 | Pulsed electrodeposition of nickel hexacyanoferrate films for electrochemically switched ion exchange. Separation and Purification Technology, 2008, 63, 407-414. | 7.9 | 33 |
| 29 | Ni-samaria-doped ceria (Ni-SDC) anode-supported solid oxide fuel cell (SOFC) operating with CO. International Journal of Hydrogen Energy, 2017, 42, 9180-9187. | 7.1 | 32 |
| 30 | Steady-state model for anomalous Co–Ni electrodeposition in sulfate solutions. Electrochimica Acta, 2012, 66, 139-150. | 5.2 | 31 |
| 31 | Copper electrodeposition in sulphate solutions in the presence of benzotriazole. Journal of Applied Electrochemistry, 2006, 36, 49-61. | 2.9 | 30 |
| 32 | Ionic-Complementary Peptide Matrix for Enzyme Immobilization and Biomolecular Sensing. Langmuir, 2009, 25, 7773-7777. | 3.5 | 27 |
| 33 | Modeling the Galvanostatic Pulse and Pulse Reverse Plating of Nickelâ€Iron Alloys on a Rotating Disk Electrode. Journal of the Electrochemical Society, 1998, 145, 2033-2042. | 2.9 | 26 |
| 34 | Tin oxide - mesoporous carbon composites as platinum catalyst supports for ethanol oxidation and oxygen reduction. Electrochimica Acta, 2014, 121, 421-427. | 5.2 | 26 |
| 35 | Low- and High-Frequency Pulse Current and Pulse Reverse Plating of Copper. Journal of the Electrochemical Society, 2003, 150, C665. | 2.9 | 25 |
| 36 | Low and High Frequency Pulse Current Plating of Copper onto a Rotating Disk Electrode. Journal of the Electrochemical Society, 2002, 149, C289. | 2.9 | 24 |

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|----|---|-----|-----------|
| 37 | Kinetic Monte Carlo simulation of electrodeposition using the embedded-atom method. Electrochimica Acta, 2014, 121, 407-414. | 5.2 | 24 |
| 38 | lonicâ€complementary peptideâ€modified highly ordered pyrolytic graphite electrode for biosensor application. Biotechnology Progress, 2008, 24, 964-971. | 2.6 | 23 |
| 39 | Shrinking-core model for systems with facile heterogeneous and homogeneous reactions. Chemical Engineering Science, 1996, 51, 3631-3645. | 3.8 | 22 |
| 40 | Prediction of oriented strand board properties from mat formation and compression operating conditions. Part 1. Horizontal density distribution and vertical density profile. Wood Science and Technology, 2006, 40, 139-158. | 3.2 | 21 |
| 41 | Investigation of Local Mass Transfer in a Packed Bed of Pall Rings Using a Limiting Current Technique. Industrial & Engineering Chemistry Research, 2003, 42, 3626-3634. | 3.7 | 20 |
| 42 | EIS Study of Nickel Deposition in Borate–Sulfate Solutions. Journal of the Electrochemical Society, 2010, 157, D283. | 2.9 | 20 |
| 43 | Electrodeposition and electrodissolution of zinc in mixed methanesulfonate-based electrolytes. Electrochimica Acta, 2018, 268, 448-461. | 5.2 | 20 |
| 44 | Life-cycle analysis of zinc-cerium redox flow batteries. Electrochimica Acta, 2020, 356, 136785. | 5.2 | 20 |
| 45 | Effect of pulse plating on composition of Sn–Pb coatings deposited in fluoroborate solutions. Journal of Applied Electrochemistry, 2003, 33, 1143-1153. | 2.9 | 18 |
| 46 | Effects of saccharin and anions (SO4 2â^', Clâ^') on the electrodeposition of Co–Ni alloys. Journal of Solid State Electrochemistry, 2015, 19, 423-433. | 2.5 | 18 |
| 47 | Model for parallel surface and pore diffusion of an adsorbate in a spherical adsorbent particle. Chemical Engineering Science, 2003, 58, 473-478. | 3.8 | 17 |
| 48 | Performance of Electrode Materials During Food Processing by Pulsed Electric Fields. IEEE Transactions on Plasma Science, 2014, 42, 3161-3166. | 1.3 | 17 |
| 49 | Prediction of oriented strand board properties from mat formation and compression operating conditions. Part 2: MOE prediction and process optimization. Wood Science and Technology, 2006, 40, 291-307. | 3.2 | 16 |
| 50 | Effect of electrolyte and agitation on the anomalous behavior and morphology of electrodeposited Co–Ni alloys. Journal of Solid State Electrochemistry, 2013, 17, 419-433. | 2.5 | 16 |
| 51 | In situ polarization study of zinc–cerium redox flow batteries. Journal of Power Sources, 2020, 471, 228463. | 7.8 | 16 |
| 52 | Investigation of catalyst layer defects in catalyst-coated membrane for PEMFC application: Non-destructive method. International Journal of Energy Research, 2018, 42, 3615-3632. | 4.5 | 15 |
| 53 | Design and assessment of a hybrid chemical engineering laboratory course with the incorporation of student-centred experiential learning. Education for Chemical Engineers, 2020, 30, 1-8. | 4.8 | 15 |
| 54 | Batch adsorption study of ammonia removal from synthetic/real wastewater using ion exchange resins and zeolites. Separation Science and Technology, 2021, 56, 462-473. | 2.5 | 15 |

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|----|--|------|-----------|
| 55 | Characterizing Corrosion Effects of Weak Organic Acids Using a Modified Bono Test. Journal of Electronic Materials, 2013, 42, 3609-3619. | 2.2 | 14 |
| 56 | Improvement of zinc-cerium redox flow batteries using mixed methanesulfonate-chloride negative electrolyte. Applied Energy, 2019, 255, 113894. | 10.1 | 14 |
| 57 | Shrinking core model for multispecies uptake onto an ion exchange resin involving distinct reaction fronts. Separation and Purification Technology, 2005, 42, 15-24. | 7.9 | 13 |
| 58 | A two-dimensional transient model for a zinc-cerium redox flow battery validated by extensive experimental data. Journal of Power Sources, 2021, 506, 230237. | 7.8 | 13 |
| 59 | Modeling the Degradation of Scanning Electrochemical Microscope Images Due to Surface Roughness. Analytical Chemistry, 1995, 67, 4500-4507. | 6.5 | 11 |
| 60 | Electrodeposited p-type Cu2O thin films at high pH for all-oxide solar cells with improved performance. Thin Solid Films, 2019, 676, 42-53. | 1.8 | 11 |
| 61 | Model for the ferric chloride leaching of galena. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1998, 29, 953-960. | 2.1 | 10 |
| 62 | Pseudoequilibrium Model Based Estimator of Matte Grade in a Copper Smelter. Industrial & Engineering Chemistry Research, 1997, 36, 112-121. | 3.7 | 9 |
| 63 | Comprehensive impedance model of cobalt deposition in sulfate solutions accounting for homogeneous reactions and adsorptive effects. Electrochimica Acta, 2011, 56, 8023-8033. | 5.2 | 9 |
| 64 | Atomistic kinetic Monte Carlo simulations of polycrystalline copper electrodeposition. Electrochemistry Communications, 2014, 46, 140-143. | 4.7 | 9 |
| 65 | Transport property measurement of binary electrolytes using a four-electrode electrochemical cell. Electrochemistry Communications, 2016, 67, 11-15. | 4.7 | 9 |
| 66 | Applications of flow cytometry sorting in the pharmaceutical industry: A review. Biotechnology Progress, 2021, 37, e3146. | 2.6 | 9 |
| 67 | On line estimation of matte grade in a copper smelter. Canadian Journal of Chemical Engineering, 1996, 74, 993-1003. | 1.7 | 8 |
| 68 | Effect of low concentrations of Pb2+ on Sn electrodeposition in methyl sulphonic acid solutions. Electrochimica Acta, 2008, 53, 2430-2440. | 5.2 | 8 |
| 69 | Morphological evolution of anodic TiO ₂ nanotubes. RSC Advances, 2014, 4, 35833-35843. | 3.6 | 8 |
| 70 | Enhancement of Electricity Generation by a Microbial Fuel Cell Using a Highly Active Non-Precious-Metal Nitrogen-Doped Carbon Composite Catalyst Cathode. Energy & Fuels, 2017, 31, 959-967. | 5.1 | 6 |
| 71 | Ammonia removal from real wastewater using a LEWATIT S 108 H resin: A batch process and fixed-bed column. Separation Science and Technology, 2020, 55, 2869-2878. | 2.5 | 6 |
| 72 | Pore transport-controlled shrinking-core systems involving diffusion, migration, and homogeneous reactions: Part I. Formulation of model and rate equation for PbSO4-carbonate system. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 683-691. | 2.1 | 5 |

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|----|---|---------------------|---------------------|
| 73 | How to relate experiments and theory for electrochemistry? Linear sweep voltammetry for the reduction of Fe(CN)63â^'. Education for Chemical Engineers, 2010, 5, e78-e86. | 4.8 | 5 |
| 74 | Kinetic and hydrodynamic implications of 1-D and 2-D models for copper electrodeposition under mixed kinetic-mass transfer control. Electrochimica Acta, 2013, 89, 717-725. | 5.2 | 5 |
| 75 | Current Response for Multilayer Adsorption Processes Driven by a Potential Step or Sweep. Journal of the Electrochemical Society, 1988, 135, 619-626. | 2.9 | 4 |
| 76 | Electrochemistry: Development and Simulation of Sulfur-doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction (Adv. Funct. Mater. 27/2014). Advanced Functional Materials, 2014, 24, 4324-4324. | 14.9 | 4 |
| 77 | Graphite felt modified with <scp>WO₃</scp> , <scp>SnO₂,</scp> and binary <scp>WO₃</scp> / <scp>SnO₂</scp> â€mixtures as novel positive electrodes for ceriumâ€based redox flow batteries. International Journal of Energy Research, 2022, 46, 4680-4698. | 4.5 | 3 |
| 78 | Simulation and Optimization of the Continuous Oriented Strand Board Pressing Process. Industrial & & & & & & & & & & & & & & & & & & & | 3.7 | 2 |
| 79 | Electrocatalysts: Multigrain Platinum Nanowires Consisting of Oriented Nanoparticles Anchored on Sulfur-Doped Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst (Adv. Mater.) Tj ETQq1 1 | . Q.17.8 431 | 4 2 gBT /Ove |
| 80 | Pore transport-controlled shrinking-core systems involving diffusion, migration, and homogeneous reactions: Part II. Application of model for PbSO4-carbonate system to experimental data. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 693-703. | 2.1 | 1 |
| 81 | Voltage Loss Analysis of Zinc-Cerium Redox Flow Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 3732-3732. | 0.0 | 1 |
| 82 | Porous Electrodes in Redox Flow Batteries. , 2022, , 466-479. | | 0 |
| 83 | Analytical Solution to Transient Convection–Diffusion Equation for Reaction at Rotating Disk Electrode Using Novel Hybrid Integral Balance-Collocation Method. International Journal of Applied and Computational Mathematics, 2022, 8, 1 | 1.6 | 0 |