

Stane R Pejovnik

List of Publications by Year in descending order

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73
papers

3,206
citations

201674

27
h-index

149698

56
g-index

73
all docs

73
docs citations

73
times ranked

3910
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Impact of the Carbon Coating Thickness on the Electrochemical Performance of LiFePO ₄ /C Composites. <i>Journal of the Electrochemical Society</i> , 2005, 152, A607. | 2.9 | 445 |
| 2 | Porous olivine composites synthesized by sol-gel technique. <i>Journal of Power Sources</i> , 2006, 153, 274-280. | 7.8 | 260 |
| 3 | The role of carbon black distribution in cathodes for Li ion batteries. <i>Journal of Power Sources</i> , 2003, 119-121, 770-773. | 7.8 | 255 |
| 4 | On the Interpretation of Measured Impedance Spectra of Insertion Cathodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1218. | 2.9 | 171 |
| 5 | Cellulose as a binding material in graphitic anodes for Li ion batteries: a performance and degradation study. <i>Electrochimica Acta</i> , 2003, 48, 883-889. | 5.2 | 152 |
| 6 | Selective catalysts for the hydrogen oxidation and oxygen reduction reactions by patterning of platinum with calix[4]arene molecules. <i>Nature Materials</i> , 2010, 9, 998-1003. | 27.5 | 151 |
| 7 | Interfacial polymerization of pyrrole and in situ synthesis of polypyrrole/silver nanocomposites. <i>Polymer</i> , 2007, 48, 2007-2013. | 3.8 | 143 |
| 8 | Interfaces in solid ionic conductors: Equilibrium and small signal picture. <i>Solid State Ionics</i> , 1995, 75, 51-58. | 2.7 | 118 |
| 9 | A powerful electrical network model for the impedance of mixed conductors. <i>Electrochimica Acta</i> , 1999, 44, 4139-4145. | 5.2 | 118 |
| 10 | A Novel Coating Technology for Preparation of Cathodes in Li-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A187. | 2.2 | 114 |
| 11 | Air-stable monodispersed MoS ₂ nanowires. <i>Nanotechnology</i> , 2004, 15, 635-638. | 2.6 | 112 |
| 12 | Selective etching of metallic single-wall carbon nanotubes with hydrogen plasma. <i>Nanotechnology</i> , 2005, 16, 278-281. | 2.6 | 95 |
| 13 | Increased surface roughness by oxygen plasma treatment of graphite/polymer composite. <i>Applied Surface Science</i> , 2003, 210, 255-261. | 6.1 | 85 |
| 14 | Chloride ion penetration into fly ash modified concrete during wetting-drying cycles. <i>Construction and Building Materials</i> , 2015, 93, 1216-1223. | 7.2 | 75 |
| 15 | A Study of Metal (Ni, Pt, Au)/Yttria-Stabilized Zirconia Interface in Hydrogen Atmosphere at Elevated Temperature. <i>Journal of the Electrochemical Society</i> , 2001, 148, A878. | 2.9 | 58 |
| 16 | Adsorption of cetyltrimethylammonium bromide on carbon black from aqueous solution. <i>Carbon</i> , 1998, 36, 1207-1212. | 10.3 | 53 |
| 17 | Impedance spectroscopy as a technique for studying the spontaneous passivation of metals in electrolytes. <i>Electrochimica Acta</i> , 1996, 41, 1137-1142. | 5.2 | 50 |
| 18 | Electrochemical binding and wiring in battery materials. <i>Journal of Power Sources</i> , 2008, 184, 593-597. | 7.8 | 47 |

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|----|---|------|-----------|
| 19 | Effect of electrode material on the oxidation of H ₂ at the metal/Sr _{0.995} Ce _{0.95} Y _{0.05} O _{2.970} interface. <i>Solid State Ionics</i> , 2000, 131, 249-259. | 2.7 | 46 |
| 20 | Carbon anodes prepared from graphite particles pretreated in a gelatine solution. <i>Journal of Power Sources</i> , 2001, 94, 97-101. | 7.8 | 46 |
| 21 | Gelatin-pretreated carbon particles for potential use in lithium ion batteries. <i>Carbon</i> , 2002, 40, 1117-1122. | 10.3 | 44 |
| 22 | Improved carbon anode properties: pretreatment of particles in polyelectrolyte solution. <i>Journal of Power Sources</i> , 2001, 97-98, 67-69. | 7.8 | 42 |
| 23 | A method of studying carbon particle distribution in paint films. <i>Thin Solid Films</i> , 2000, 376, 5-8. | 1.8 | 35 |
| 24 | Dissolution of Boron in Lithium Melt. <i>The Journal of Physical Chemistry</i> , 1995, 99, 4252-4260. | 2.9 | 32 |
| 25 | Substrate-induced coagulation of carbon black on gelatine-modified printed wiring board surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 143, 17-26. | 4.7 | 31 |
| 26 | RuO ₂ -wired high-rate nanoparticulate TiO ₂ (anatase): Suppression of particle growth using silica. <i>Electrochemistry Communications</i> , 2008, 10, 926-929. | 4.7 | 31 |
| 27 | Observations on dedolomitization of carbonate concrete aggregates, implications for ACR and expansion. <i>Cement and Concrete Research</i> , 2013, 54, 151-160. | 11.0 | 30 |
| 28 | Electrochemical preparation and characterisation of Li ₂ MoS ₂ ~x nanotubes. <i>Electrochimica Acta</i> , 2003, 48, 3079-3084. | 5.2 | 27 |
| 29 | Grain boundary conductance in AgCl gained by micro-contact impedance spectroscopy. <i>Solid State Ionics</i> , 2000, 133, 129-138. | 2.7 | 22 |
| 30 | An effective surfactant-free isolation procedure for single-wall carbon nanotubes. <i>Carbon</i> , 2002, 40, 2581-2585. | 10.3 | 20 |
| 31 | Modelling of electrical properties of Ni-YSZ composites. <i>Journal of the European Ceramic Society</i> , 2007, 27, 959-964. | 5.7 | 20 |
| 32 | Time Evolution of the Impedance Response of a Passive Film: A Simple Application to the Li/SOCl ₂ system. <i>Journal of the Electrochemical Society</i> , 1999, 146, 933-940. | 2.9 | 17 |
| 33 | All-Solid-State Measurements of Electrical Properties of Passive Films on Lithium. <i>Journal of the Electrochemical Society</i> , 1996, 143, 1690-1695. | 2.9 | 16 |
| 34 | Two-channel electrical conduction in air-stable monodispersed Mo ₆ S ₃ I ₆ nanowire sheets. <i>Journal of Applied Physics</i> , 2006, 99, 064311. | 2.5 | 16 |
| 35 | Impedance Spectroscopy of a Passive Layer on Lithium. <i>Journal of the Electrochemical Society</i> , 1993, 140, 308-314. | 2.9 | 15 |
| 36 | Molecular Bridging between Water-Dispersed Particles and Gelatin-Coated Surfaces. <i>Langmuir</i> , 2000, 16, 8334-8342. | 3.5 | 15 |

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|----|---|-----|-----------|
| 37 | Electrical conductivity of Mo ₆ S ₃ I ₆ and Mo ₆ S ₄ .5I ₄ .5 nanowires. Journal of the European Ceramic Society, 2007, 27, 975-977. | 5.7 | 15 |
| 38 | In and Ex Situ Studies of the Formation of Layered Microspherical Hydrozincite as Precursor for ZnO. Chemistry - A European Journal, 2010, 16, 11481-11488. | 3.3 | 14 |
| 39 | A new approach for the computation of the frequency response of space charge-containing interfaces. Electrochimica Acta, 1993, 38, 1975-1978. | 5.2 | 12 |
| 40 | Combustion synthesis and the influence of precursor packing on the sintering properties of LCC nanopowders. Journal of the European Ceramic Society, 2004, 24, 1935-1939. | 5.7 | 12 |
| 41 | Characterization of water/sodium bis(2-ethylhexyl) sulfosuccinate/sodium bis(amy) sulfosuccinate/n-heptane mixed reverse micelles and w/o microemulsion systems: The influence of water and sodium bis(amy) sulfosuccinate content. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 385, 249-255. | 4.7 | 11 |
| 42 | Substrate-induced deposition of microporous particles on gelatine-modified surfaces. Journal of Materials Science Letters, 1999, 18, 1841-1843. | 0.5 | 10 |
| 43 | Confirmation of the presence of trivalent copper and peroxidic oxygen in superconducting YBa ₂ Cu ₃ O _{7-x} materials and approval of their dependence on annealing procedure. Physica C: Superconductivity and Its Applications, 1991, 175, 607-614. | 1.2 | 9 |
| 44 | Interfacial impedance of the boundary Ag/AgCl and its investigations by a novel method. Solid State Ionics, 1995, 80, 19-26. | 2.7 | 9 |
| 45 | A.C. impedance studies of the anodic passivating layer in lithium—SOCl ₂ batteries. Journal of Power Sources, 1989, 25, 123-131. | 7.8 | 8 |
| 46 | Space Charge at the Lithium—Lithium Chloride Interface. Journal of the Electrochemical Society, 1991, 138, 1582-1587. | 2.9 | 8 |
| 47 | Electrochemical behaviour of a Cu(II)–Cu(III) couple: Cyclic voltammetry and kinetic parameters at a platinum electrode in a strong alkaline medium and in the presence of tellurate anions. Journal of Electroanalytical Chemistry, 1993, 351, 81-90. | 3.8 | 8 |
| 48 | A study of the delay effect in SOCl ₂ batteries. Journal of Applied Electrochemistry, 1994, 24, 1001-1008. | 2.9 | 8 |
| 49 | Influence of humidity on microstructure and electrical characteristics of (PEO–plasticiser) _n LiAl(SO ₃ Cl) ₄ polymer electrolytes. Solid State Ionics, 2000, 131, 323-327. | 2.7 | 8 |
| 50 | Influence of carbon black type on anode and cathode electrical properties in batteries. Electrochimica Acta, 1995, 40, 2723-2729. | 5.2 | 7 |
| 51 | A new penetration impedance technique. Electrochimica Acta, 1996, 41, 1011-1015. | 5.2 | 7 |
| 52 | A Method of Manufacturing Highly Conductive Composite Materials by Coating Surfaces of Nonconductors with Fine Particulate Conductive Substances. Monatshefte für Chemie, 2001, 132, 487-497. | 1.8 | 6 |
| 53 | Interpretation of ac impedance spectroscopy of the anodic passive layer in Li/SOCl ₂ batteries. Electrochimica Acta, 1990, 35, 423-426. | 5.2 | 5 |
| 54 | AES and XPS investigations of molybdenum–sulfur–iodine–based nanowire-type material. Surface and Interface Analysis, 2008, 40, 1289-1293. | 1.8 | 5 |

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|----|---|-----|-----------|
| 55 | Determination of the local electrical properties in ceramic materials gained by microcontact impedance spectroscopy. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1759-1762. | 5.7 | 4 |
| 56 | The effects of nitriding on the magnetic properties of Sm ²⁺ -Fe- and Sm ²⁺ -Fe-Ta-based materials. <i>Journal of Alloys and Compounds</i> , 2007, 433, 256-260. | 5.5 | 4 |
| 57 | Coprecipitation of copper/zinc compounds in metal salt-urea-water system. <i>Journal of the European Ceramic Society</i> , 2007, 27, 451-455. | 5.7 | 4 |
| 58 | A note on the impedance response of Li/LiCl/solid electrode system. <i>Solid State Ionics</i> , 1996, 91, 101-108. | 2.7 | 3 |
| 59 | Single-crystal structure refinement of four compounds in the Y _{1-x} Pr _x Ba ₂ Cu ₃ Al _y O ₇ system. <i>Journal of Materials Research</i> , 1996, 11, 3000-3004. | 2.6 | 3 |
| 60 | Electrical and electrochemical characterisation of (PEO) _n M(SO ₃ Cl) _x (M=Li, LiAl, Ca) polymer electrolytes. <i>Electrochimica Acta</i> , 1998, 43, 2373-2379. | 5.2 | 3 |
| 61 | Synthesis and Characterization of Mo ₆ S _{4.5} I _{4.5} Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 982-985. | 0.9 | 3 |
| 62 | Crystallization Using Reverse Micelles and Water-in-Oil Microemulsion Systems: The Highly Selective Tool for the Purification of Organic Compounds from Complex Mixtures. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 330-335. | 3.3 | 3 |
| 63 | Densification of TiO ₂ by hot pressing. <i>Ceramurgia International</i> , 1977, 3, 92-94. | 0.3 | 2 |
| 64 | Comparison between the impedance spectra of Li/SOCl ₂ batteries obtained using the time and the frequency domain measurement techniques. <i>Journal of Applied Electrochemistry</i> , 1992, 22, 638-643. | 2.9 | 2 |
| 65 | The role of pyridine ring functionalization and anion structure on the conductivity of crosslinked polyvinylpyridinium salts. <i>Electrochimica Acta</i> , 1997, 42, 2485-2492. | 5.2 | 2 |
| 66 | Sulphured Polyacrylonitrile Composite Analysed by in operando UV-Visible Spectroscopy and 4-electrode Swagelok Cell. <i>Acta Chimica Slovenica</i> , 2016, 63, 569-577. | 0.6 | 2 |
| 67 | Electrochemical characterization of lithium-boron composite. <i>Journal of Applied Electrochemistry</i> , 1994, 24, 78. | 2.9 | 1 |
| 68 | Gelatin-modified surfaces in selected electronic components. , 2001, , 177-179. | | 1 |
| 69 | The sintering of uranium monosulphide in presence of liquid phase. <i>Materials Research Bulletin</i> , 1972, 7, 1553-1558. | 5.2 | 0 |
| 70 | Silane treatment of silicate fillers-II. <i>Amphibia - Reptilia</i> , 1984, 5, 269-279. | 0.5 | 0 |
| 71 | Space-charge model of the SEI conduction in the Li/SOCl ₂ system. <i>Journal of Power Sources</i> , 1993, 44, 391-396. | 7.8 | 0 |
| 72 | Differential Measurement of Nonlinear Electrical Relaxation of Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 1996, 143, 3148-3152. | 2.9 | 0 |

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|----|--|----|-----------|
| 73 | SYNTHESIS AND CHARACTERIZATION OF EPOXY-SINGLE-WALL CARBON NANOTUBE COMPOSITES. , 2006, , 225-226. | | 0 |