

Andrzej Lasia

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135
papers

5,788
citations

44
h-index

72
g-index

141
ext. papers

6,347
ext. citations

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avg, IF

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L-index

| # | Paper | IF | Citations |
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| 135 | Electrochemical Impedance Spectroscopy and its Applications 2014 , | | 313 |
| 134 | Electrochemical Impedance Spectroscopy and its Applications 2002 , 143-248 | | 281 |
| 133 | Electrodeposition of aluminium from ionic liquids: Part I - electrodeposition and surface morphology of aluminium from aluminium chloride (AlCl ₃) - 1-ethyl-3-methylimidazolium chloride ([EMIm]Cl) ionic liquids. <i>Surface and Coatings Technology</i> , 2006 , 201, 1-9 | 4.4 | 269 |
| 132 | Studies of the Hydrogen Evolution Reaction on Raney Nickel/Molybdenum Electrodes. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 735-749 | 2.6 | 269 |
| 131 | The structure, morphology and electrochemical impedance study of the hydrogen evolution reaction on the modified nickel electrodes. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 145-157 | 6.7 | 209 |
| 130 | Impedance of porous electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1995 , 397, 27-33 | 4.1 | 176 |
| 129 | Study of the hydrogen evolution reaction on nickel-based composite coatings containing molybdenum powder. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1211-1218 | 6.7 | 169 |
| 128 | Study of the Kinetics of Hydrogen Evolution Reaction on Nickel-Zinc Alloy Electrodes. <i>Journal of the Electrochemical Society</i> , 1991 , 138, 3321-3328 | 3.9 | 164 |
| 127 | Investigation of Hydrogen Adsorption and Absorption in Palladium Thin Films. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1937 | 3.9 | 130 |
| 126 | Electrodeposition of aluminium from ionic liquids: Part II - studies on the electrodeposition of aluminum from aluminum chloride (AlCl ₃) - trimethylphenylammonium chloride (TMPAC) ionic liquids. <i>Surface and Coatings Technology</i> , 2006 , 201, 10-18 | 4.4 | 114 |
| 125 | Impedance of porous Au based electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 572, 355-366 | 4.1 | 105 |
| 124 | Study of the Kinetics of Hydrogen Evolution Reaction on Nickel-Zinc Powder Electrodes. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 3214-3219 | 3.9 | 101 |
| 123 | Studies of the Hydrogen Evolution Reaction on Ni-P Electrodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 511-519 | 3.9 | 99 |
| 122 | Kinetics of hydrogen evolution on Ni-Al alloy electrodes. <i>Journal of Applied Electrochemistry</i> , 1992 , 22, 376-382 | 2.6 | 99 |
| 121 | Mechanism and kinetics of the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 19484-19518 | 6.7 | 94 |
| 120 | Hydrogen evolution reaction on Ni-Al electrodes. <i>Journal of Applied Electrochemistry</i> , 1993 , 23, 135 | 2.6 | 91 |
| 119 | Evaluation of the surface roughness of microporous Ni ₂ ZnB electrodes by in situ methods. <i>Journal of Applied Electrochemistry</i> , 1999 , 29, 979-986 | 2.6 | 86 |

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| 118 | Study of the Kinetics of Hydrogen Evolution Reaction on Raney Nickel Composite-Coated Electrode by AC Impedance Technique. <i>Journal of the Electrochemical Society</i> , 1990 , 137, 1723-1730 | 3.9 | 85 |
| 117 | General Model of Electrochemical Hydrogen Absorption into Metals. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3393-3399 | 3.9 | 83 |
| 116 | Investigation of Hydrogen Adsorption-Absorption into Thin Palladium Films. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1925 | 3.9 | 79 |
| 115 | Mechanism of hydrogen adsorption/absorption at thin Pd layers on Au(111). <i>Electrochimica Acta</i> , 2007 , 52, 6195-6205 | 6.7 | 72 |
| 114 | Study of the Hydrogen Evolution Reaction on Ni-Mo-P Electrodes in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 2219-2225 | 3.9 | 71 |
| 113 | Porous electrodes in the presence of a concentration gradient. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 428, 155-164 | 4.1 | 70 |
| 112 | Nature of the two semi-circles observed on the complex plane plots on porous electrodes in the presence of a concentration gradient. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 500, 30-35 | 4.1 | 67 |
| 111 | The use of regularization methods in the deconvolution of underlying distributions in electrochemical processes. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 475, 28-37 | 4.1 | 65 |
| 110 | Study of the hydrogen absorption in Pd in alkaline solution. <i>Electrochimica Acta</i> , 2008 , 53, 6317-6322 | 6.7 | 63 |
| 109 | Electrochemical impedance study of the hematite/water interface. <i>Langmuir</i> , 2012 , 28, 7914-20 | 4 | 62 |
| 108 | Effect of crystal violet on the kinetics of H sorption into Pd. <i>Electrochimica Acta</i> , 2006 , 51, 3356-3364 | 6.7 | 62 |
| 107 | Investigation of Hydrogen Adsorption and Absorption in Palladium Thin Films. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A1943 | 3.9 | 62 |
| 106 | Kinetics of Hydrogen Evolution Reaction on Nickel-Zinc-Phosphorous Electrodes. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2652-2657 | 3.9 | 61 |
| 105 | Impedance studies of porous lanthanum-phosphate-bonded nickel electrodes in concentrated sodium hydroxide solution. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 360, 101-118 | 4.1 | 61 |
| 104 | Influence of experimental factors on the constant phase element behavior of Pt electrodes. <i>Electrochimica Acta</i> , 2011 , 56, 8058-8068 | 6.7 | 60 |
| 103 | On the mechanism of the hydrogen absorption reaction. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 593, 159-166 | 4.1 | 55 |
| 102 | Kinetics of hydrogen underpotential deposition at polycrystalline platinum in acidic solutions. <i>Electrochimica Acta</i> , 2012 , 80, 292-301 | 6.7 | 54 |
| 101 | Fast cis-trans isomerization of an azobenzene derivative in liquids and liquid crystals under a low electric field. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3596-9 | 16.4 | 54 |

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| 100 | Separation of hydrogen adsorption and absorption on Pd thin films. <i>Electrochimica Acta</i> , 2008 , 53, 6845-6850 | 6.7 | 53 |
| 99 | Investigation of hydrogen evolution on Raney-Nickel composite-coated electrodes. <i>Electrochimica Acta</i> , 1990 , 35, 1251-1256 | 6.7 | 53 |
| 98 | Effect of Heat-Treatment on the Mechanism and Kinetics of the Hydrogen Evolution Reaction on NiB + TiO ₂ + Ti Electrodes. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 507-516 | 2.6 | 52 |
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| 96 | Electrochemical properties of NiB electrode materials modified with nickel oxide and metallic cobalt powders. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 265-271 | 6.7 | 49 |
| 95 | Hydrogen evolution reaction on Ni-Al-Mo and Ni-Al electrodes prepared by low pressure plasma spraying. <i>Journal of Applied Electrochemistry</i> , 1995 , 25, 592-602 | 2.6 | 49 |
| 94 | Applications of Electrochemical Impedance Spectroscopy to Hydrogen Adsorption, Evolution and Absorption into Metals 2002 , 1-49 | | 48 |
| 93 | Kinetics of the Hydrogen Evolution Reaction on RuO ₂ and IrO ₂ Oxide Electrodes in H ₂ SO ₄ Solution: An AC Impedance Study. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3576-3584 | 3.9 | 45 |
| 92 | Hydrogen Evolution Reaction on Nickel-Molybdenum Powder Electrodes. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 3458-3464 | 3.9 | 45 |
| 91 | Electrocatalytic properties of amorphous nickel boride electrodes for hydrogen evolution reaction in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 333, 115-125 | 4.1 | 44 |
| 90 | Modeling of hydrogen upd isotherms. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 562, 23-31 | 4.1 | 41 |
| 89 | Ni-Al Powder Electrocatalyst for Hydrogen Evolution: Effect of Heat-Treatment on Morphology, Composition, and Kinetics. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 2464-2473 | 3.9 | 39 |
| 88 | Hydrogen sorption in Pd monolayers in alkaline solution. <i>Electrochimica Acta</i> , 2009 , 54, 5292-5299 | 6.7 | 37 |
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| 85 | Limitations of the potential step technique to impedance measurements using discrete time Fourier transform. <i>Analytical Chemistry</i> , 2004 , 76, 5033-8 | 7.8 | 34 |
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| 79 | Hydrogen evolution/oxidation reactions on porous electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 454, 115-121 | 4.1 | 30 |
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| 75 | Determination of hydrogen absorption isotherm and diffusion coefficient in Pd81Pt19 alloy. <i>Journal of Electroanalytical Chemistry</i> , 2006 , 588, 32-43 | 4.1 | 26 |
| 74 | Double layer effects in the kinetics of electroreduction of zinc(II) at mercury in dimethylformamide and dimethylsulfoxide solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990 , 279, 243-256 | | 26 |
| 73 | Kinetics of hydrogen underpotential deposition at iridium in sulfuric and perchloric acids. <i>Electrochimica Acta</i> , 2017 , 225, 160-167 | 6.7 | 25 |
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| 71 | Comparison and application of finite difference methods to electroanalytical problems. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 146, 397-411 | | 25 |
| 70 | Surface Effects in the Hydrogen Evolution Reaction on Ni-Zn Alloy Electrodes in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3313-3319 | 3.9 | 24 |
| 69 | Kinetics of hydrogen underpotential deposition at polycrystalline rhodium in acidic solutions. <i>Electrochimica Acta</i> , 2011 , 56, 5746-5753 | 6.7 | 23 |
| 68 | Nucleation and crystal growth in gold electrodeposition from acid solution Part I: Soft gold. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 843-852 | 2.6 | 23 |
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| 65 | Dynamic impedance study of ethanol and acetaldehyde oxidation at platinum in acid solutions. <i>Electrochimica Acta</i> , 2012 , 78, 286-293 | 6.7 | 21 |

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| 62 | Mechanism of zinc(ii) reduction in DMSO on mercury. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990 , 288, 153-164 | | 21 |
| 61 | Study of a mechanism of hard gold electrodeposition. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 385 | 2.6 | 20 |
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| 59 | Impedance studies of Li ⁺ diffusion in nickel manganese cobalt oxide (NMC) during charge/discharge cycles. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 113944 | 4.1 | 17 |
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| 56 | Semiconductors and Mott-Schottky Plots 2014 , 251-255 | | 16 |
| 55 | Electrochemically Active Block Copolymer Micelles Containing Coumarin Moieties. <i>Macromolecular Chemistry and Physics</i> , 2008 , 209, 1065-1072 | 2.6 | 16 |
| 54 | Electrocatalytic properties of doped nickel boride based electrodes for the hydrogen evolution reaction. <i>Journal of Applied Electrochemistry</i> , 1994 , 24, 1267-1275 | 2.6 | 16 |
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| 52 | Improvements in the determination of the kinetics of dimerization reactions by cyclic voltammetry. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983 , 146, 413-416 | | 15 |
| 51 | Fast Cis-Trans Isomerization of an Azobenzene Derivative in Liquids and Liquid Crystals under a Low Electric Field. <i>Angewandte Chemie</i> , 2008 , 120, 3652-3655 | 3.6 | 14 |
| 50 | Comments on The phase-shift method for determining Langmuir adsorption isotherms of over-potentially deposited hydrogen for the cathodic evolution reaction at poly-Re/aqueous electrolyte interfaces [Hydrogen Energy 30 (2005) 485-499]. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 913-917 | 6.7 | 14 |
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| 45 | Thermal, Optical and Electrochemical Properties of Side-Chain Azopyridine Polymers Complexed with Metalloporphyrins. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 1485-1491 | 2.6 | 13 |
| 44 | Impedance study of the passive film on stainless steel 304 in pH 8 carbonate solution. <i>Journal of Applied Electrochemistry</i> , 1996 , 26, 1169 | 2.6 | 13 |
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| 42 | Studies of the hydrogen evolution reaction on lanthanum phosphate-bonded composite nickelruthenium electrodes in 1 M alkaline solutions. <i>Journal of Applied Electrochemistry</i> , 1993 , 23, 684 | 2.6 | 13 |
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| 37 | Study of solvent effects on the kinetics of the Cd(II)/Cd(Hg) reaction. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 314, 103-116 | | 11 |
| 36 | Influence of the Adsorption of Organic Compounds on the Kinetics of the Hydrogen Evolution Reaction on Ni and Ni-Zn Alloy Electrodes. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 1058-1064 | 3.9 | 11 |
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| 34 | Applications of implicit finite difference technique to cyclic voltammetry. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1985 , 191, 185-190 | | 11 |
| 33 | AC Impedance Studies of Highly Oriented Pyrolytic Graphite in 1M NaOH Solution. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 2716-2721 | 3.9 | 9 |
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| 31 | Impedance of Porous Electrodes. <i>ECS Transactions</i> , 2008 , 13, 1-18 | 1 | 8 |
| 30 | Electrochemical reduction mechanism of phthalimide in DMF. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1974 , 52, 229-236 | | 8 |
| 29 | Electrochemically induced chain reactions: the electrochemical behavior of nitrosobenzene in the presence of proton donors in tetrahydrofuran. <i>Journal of Organic Chemistry</i> , 1993 , 58, 5329-5334 | 4.2 | 7 |

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| 28 | Kinetics of electroreduction of Zn ²⁺ at mercury in nonaqueous solutions. <i>Canadian Journal of Chemistry</i> , 1994 , 72, 1691-1698 | 0.9 | 7 |
| 27 | Study of the hydrogen absorption/diffusion in Pd ₈₀ Rh ₂₀ alloy in acidic solution. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 822, 153-162 | 4.1 | 7 |
| 26 | Definition of Impedance and Impedance of Electrical Circuits 2014 , 7-66 | | 6 |
| 25 | Kinetic and Thermodynamic Parameters of Hydrogen Sorption in Pd, Pd-Pt and on Pt. <i>ECS Transactions</i> , 2006 , 2, 11-19 | 1 | 6 |
| 24 | Study of hydrogen evolution on selected PTFE-bonded porous electrodes. <i>International Journal of Hydrogen Energy</i> , 1993 , 18, 985-994 | 6.7 | 6 |
| 23 | Impedance of the Faradaic Reactions in the Presence of Mass Transfer 2014 , 85-125 | | 5 |
| 22 | Comments on the article "An electrochemical impedance measurement technique employing Fourier transform" by J.-S. Yoo and S.-M. Park. <i>Analytical Chemistry</i> , 2001 , 73, 4059-61 | 7.8 | 5 |
| 21 | Kinetics of the electroreduction of Co(salen) in DMSO. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 326, 317-322 | 4.1 | 5 |
| 20 | Studies of copper impedance in alkaline aqueous solutions in the presence of inorganic anions. <i>Surface and Coatings Technology</i> , 1988 , 34, 401-416 | 4.4 | 5 |
| 19 | The Origin of the Constant Phase Element.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 580-589 | 6.4 | 5 |
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| 17 | Anomalies in cyclic voltammograms for extreme values of transfer coefficients. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 260, 221-226 | | 4 |
| 16 | Study of the CEE mechanism by voltammetry and chronoamperometry. <i>Canadian Journal of Chemistry</i> , 1986 , 64, 2319-2323 | 0.9 | 4 |
| 15 | Selective Electrocatalytic Hydrogenation of Linolenic Acid on Pd/Al ₂ O ₃ and Pd-Co/Al ₂ O ₃ Catalysts. <i>International Journal of Electrochemistry</i> , 2011 , 2011, 1-9 | 2.4 | 3 |
| 14 | Mechanism of electroreduction of 9-anthraldehyde. <i>Canadian Journal of Chemistry</i> , 1987 , 65, 744-747 | 0.9 | 3 |
| 13 | Impedance of the Faradaic Reactions in the Presence of Adsorption 2014 , 127-145 | | 2 |
| 12 | Dispersion of Impedances at Solid Electrodes 2014 , 177-201 | | 2 |
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| 5 | Impedance of Porous Electrodes 2014 , 203-250 | |
| 4 | Self-Assembled Monolayers, Biological Membranes, and Biosensors 2014 , 263-270 | |
| 3 | Nonlinear Impedances (Higher Harmonics) 2014 , 323-331 | |
| 2 | Instrumental Limitations 2014 , 333-339 | |
| 1 | Influence of the Nature of the Contact Electrode on the Conductivity Measurements of Doped Ceria. <i>ECS Proceedings Volumes</i> , 2005 , 2005-07, 1081-1086 | |