

Zbigniew Stojek

List of Publications by Year in descending order

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81
papers

1,211
citations

361296

20
h-index

526166

27
g-index

83
all docs

83
docs citations

83
times ranked

1205
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical chemo- and biosensors based on microgels immobilized on electrode surface. <i>Electrochemical Science Advances</i> , 2022, 2, e2100162.	1.2	4
2	Activity of Povidone in Recent Biomedical Applications with Emphasis on Micro- and Nano Drug Delivery Systems. <i>Pharmaceutics</i> , 2021, 13, 654.	2.0	9
3	Redox-degradable microgel based on poly(acrylic acid) as drug-carrier with very high drug-loading capacity and decreased toxicity against healthy cells. <i>Polymer Degradation and Stability</i> , 2021, 190, 109652.	2.7	15
4	Strong enhancement of migrational contribution to the transport by charged gel microlayers anchored on electrode surface. <i>Electrochimica Acta</i> , 2021, 390, 138807.	2.6	2
5	Nanocomposite hydrogel coatings: Formation of metal nanostructures by electrodeposition through thermoresponsive hydrogel layer. <i>Electrochimica Acta</i> , 2020, 363, 137243.	2.6	12
6	Degradable nanohydrogel with high doxorubicin loadings exhibiting controlled drug release and decreased toxicity against healthy cells. <i>International Journal of Pharmaceutics</i> , 2020, 579, 119188.	2.6	12
7	Degradable, thermo-, pH- and redox-sensitive hydrogel microcapsules for burst and sustained release of drugs. <i>International Journal of Pharmaceutics</i> , 2019, 569, 118589.	2.6	37
8	Synthesis of cross-linked poly(acrylic acid) nanogels in an aqueous environment using precipitation polymerization: unusually high volume change. <i>Royal Society Open Science</i> , 2019, 6, 190981.	1.1	27
9	Recent Advances in Degradable Hybrids of Biomolecules and NGs for Targeted Delivery. <i>Molecules</i> , 2019, 24, 1873.	1.7	15
10	Triggering the Shrinking/Swelling Process in Thin Gel Layers on Conducting Surfaces by Applying an Appropriate Potential. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12114-12120.	4.0	16
11	Diffusional and migrational transport of ionic species affected by electrostatic interactions with an oppositely charged hydrogel layer attached to an electrode surface. <i>Electrochemistry Communications</i> , 2018, 88, 97-100.	2.3	12
12	Modification of gold electrode with a monolayer of self-assembled microgels. <i>Electrochimica Acta</i> , 2018, 268, 531-538.	2.6	24
13	Construction of multifunctional materials by intrachannel modification of NIPA hydrogel with PANI-metal composites. <i>Journal of Electroanalytical Chemistry</i> , 2018, 812, 273-281.	1.9	13
14	Nanoconjugates of ferrocene and carbon-encapsulated iron nanoparticles as sensing platforms for voltammetric determination of ceruloplasmin in blood. <i>Biosensors and Bioelectronics</i> , 2018, 102, 490-496.	5.3	19
15	Electroactive, Mediating and Thermosensitive Microgel Useful for Covalent Entrapment of Enzymes and Formation of Sensing Layer in Biosensors. <i>Electroanalysis</i> , 2018, 30, 2853-2860.	1.5	20
16	Micro- and nanoelectrode array behavior at regularly sized electrode modified with a thin film of thermoresponsive polymeric gel. <i>Electrochimica Acta</i> , 2018, 290, 595-604.	2.6	11
17	A degradable nanogel drug carrier crosslinked with three-oligonucleotide hybrids for two-way drug release in mild and high hyperthermia treatment. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4713-4724.	2.9	15
18	Mass transport affected by electrostatic barrier in ionized gel layers attached to microelectrode surface. <i>Electrochemistry Communications</i> , 2017, 81, 24-28.	2.3	12

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19	Nanohydrogel with N,N- ϵ^2 -bis(acryloyl)cystine crosslinker for high drug loading. <i>International Journal of Pharmaceutics</i> , 2017, 523, 336-342.	2.6	31
20	Unusual swelling behavior of core-shell microgels built from polymers exhibiting lower critical solubility temperature. <i>European Polymer Journal</i> , 2017, 95, 314-322.	2.6	12
21	Environmentally sensitive hydrogel functionalized with electroactive and complexing ϵ -iron(III) catechol groups. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3236-3242.	2.5	18
22	Quartz crystal microbalance electrode modified with thermoresponsive crosslinked and non-crosslinked N-isopropylacrylamide polymers. Response to changes in temperature. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3263-3270.	1.2	8
23	Conformational control of human transferrin covalently anchored to carbon-coated iron nanoparticles in presence of a magnetic field. <i>Acta Biomaterialia</i> , 2016, 45, 367-374.	4.1	15
24	An environmentally sensitive three-component hybrid microgel. <i>RSC Advances</i> , 2016, 6, 83493-83500.	1.7	16
25	Optimization of CuW alloy electrodeposition towards high-tungsten content. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3143-3150.	1.2	7
26	Electrochemical Examination of the Structure of Thin Hydrogel Layers Anchored to Regular and Microelectrode Surfaces. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9540-9547.	1.2	14
27	Environmentally sensitive nanohydrogels decorated with a three-strand oligonucleotide helix for controlled loading and prolonged release of intercalators. <i>RSC Advances</i> , 2016, 6, 91045-91059.	1.7	7
28	Electrochemical examination of ability of dsDNA/PAM composites for storing and releasing of doxorubicin. <i>Bioelectrochemistry</i> , 2016, 109, 1-8.	2.4	8
29	Improved cytotoxicity and preserved level of cell death induced in colon cancer cells by doxorubicin after its conjugation with iron-oxide magnetic nanoparticles. <i>Toxicology in Vitro</i> , 2016, 33, 45-53.	1.1	36
30	Electrochemical attachment of thermo- and pH sensitive interpenetrating-polymers-network hydrogel to conducting surface. <i>Electrochimica Acta</i> , 2015, 179, 372-378.	2.6	29
31	Assembling Paramagnetic Ceruloplasmin at Electrode Surfaces Covered with Ferromagnetic Nanoparticles. <i>Scanning Electrochemical Microscopy in the Presence of a Magnetic Field</i> . <i>Langmuir</i> , 2015, 31, 8176-8183.	1.6	12
32	Stable and degradable microgels linked with cystine for storing and environmentally triggered release of drugs. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7262-7270.	2.9	34
33	Detection of Oxidative Damage of Synthetic Oligonucleotides Caused by Thallium(III) Complexes. <i>Electroanalysis</i> , 2014, 26, 340-350.	1.5	16
34	Polypyrrole- ϵ gold nanostructured composite, active and durable electrocatalytic material. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 3049-3055.	1.2	7
35	Carbon-encapsulated iron nanoparticles as ferromagnetic matrix for oxygen reduction in absence and presence of immobilized laccase. <i>Electrochimica Acta</i> , 2014, 126, 115-121.	2.6	18
36	Environmentally sensitive, quickly responding microgels with lattice channels filled with polyaniline. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1483.	2.9	22

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37	Hydrogel with chains functionalized with carboxyl groups as universal 3D platform in DNA biosensors. <i>Biosensors and Bioelectronics</i> , 2014, 54, 222-228.	5.3	28
38	Electrografting of carboxyphenyl thin layer onto gold for DNA and enzyme immobilization. <i>Electrochimica Acta</i> , 2014, 126, 11-18.	2.6	7
39	Microphase Separation in the Bulk in $\langle \text{scp} \rangle \text{ABA} \langle / \text{scp} \rangle$ Triblock Copolymer-based Model Conetworks: Effects of Core Crowding and Loop Formation. <i>Macromolecular Theory and Simulations</i> , 2013, 22, 323-334.	0.6	7
40	Repeated rearrangements of oligonucleotides immobilized on gold surface caused by UV irradiation in presence of dissolved oxygen. <i>Electrochimica Acta</i> , 2013, 110, 133-138.	2.6	4
41	Electrochemical Properties of Micro- and Regular Electrodes Modified with Environmentally Sensitive Poly($\langle i \rangle \text{N} \langle / i \rangle$ -isopropylacrylamide) Gel via Electrochemically Induced Free-Radical Polymerization. <i>Electroanalysis</i> , 2013, 25, 875-880.	1.5	16
42	Formation of Intermediate Layers for Immobilization of Biomacromolecules by Self-Assembling and Reduction of Phenyl diazonium Salts. A Comparative Study. <i>Electroanalysis</i> , 2012, 24, 2053-2060.	1.5	6
43	Nanoparticles and Nanostructured Materials Used in Modification of Electrode Surfaces. <i>ACS Symposium Series</i> , 2012, , 313-325.	0.5	5
44	Polymeric hydrogels modified with ornithine and lysine: Sorption and release of metal cations and amino acids. <i>Journal of Polymer Science Part A</i> , 2012, 50, 542-550.	2.5	27
45	Lysine and Arginine Oligopeptides Tagged with Anthraquinone: Electrochemical Properties. <i>Electroanalysis</i> , 2012, 24, 975-982.	1.5	16
46	Changes in Performance of DNA Biosensor Caused by Hydroxyl Radicals. <i>Electroanalysis</i> , 2011, 23, 55-62.	1.5	6
47	Metal ion-driven synthesis of polyaniline composite doped with metallic nanocrystals at the boundary of two immiscible liquids. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1303-1310.	1.2	21
48	New Anthraquinone Derivatives as Electrochemical Redox Indicators for the Visualization of the DNA Hybridization Process. <i>Electroanalysis</i> , 2010, 22, 49-59.	1.5	28
49	Substantial Influence of Temperature on Anchoring of Gold-Nanoparticle Monolayer for Performance of DNA Biosensors. <i>Electroanalysis</i> , 2010, 22, 2323-2329.	1.5	5
50	Influence of polymer network-metal ion complexation on the swelling behaviour of new gels with incorporated L -amino acid groups. <i>Soft Matter</i> , 2010, 6, 1336.	1.2	23
51	Enzyme-Amplified Amperometric Detection of DNA Using Redox Mediating Films on Gold Microelectrodes. <i>Electroanalysis</i> , 2009, 21, 342-350.	1.5	15
52	Interactions of Dissolved dsDNA with Intercalating Drug by Anodic Voltammetry and Spectroscopy. Influence of pH. <i>Electroanalysis</i> , 2009, 21, 52-60.	1.5	13
53	Electroanalytical Properties of ITO Electrodes Modified with Environmentally Sensitive Poly($\langle i \rangle \text{N} \langle / i \rangle$ -isopropylacrylamide) Gel and Prussian Blue. <i>Electroanalysis</i> , 2009, 21, 1363-1368.	1.5	13
54	Effects of compositional and structural features on corrosion behavior of nickel-tungsten alloys. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 263-275.	1.2	63

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55	Voltammetry of Undiluted Redox Systems. Electrochemical ESR and Electrochemical Impedance Spectroscopy Evidence for Formation of Ionic Liquid at Microelectrode Surface. <i>Electroanalysis</i> , 2008, 20, 9-13.	1.5	2
56	Spectroelectroanalytical Properties of Antitumor Agent C-1311. <i>Electroanalysis</i> , 2007, 19, 214-219.	1.5	3
57	Using self-assembled monolayers for controlled electrodeposition of copper into submicrometer size surface features/decrements. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 288-292.	1.2	3
58	Voltammetric Studies of Parallel Electrode Processes Under Low Ionic Strength Conditions. Influence of Convection. <i>Electroanalysis</i> , 2006, 18, 641-648.	1.5	1
59	One Dimensional Volume-Phase Transition of N-Isopropylacrylamide Gels on the Surface of Gold Electrodes. <i>Electroanalysis</i> , 2005, 17, 1396-1400.	1.5	16
60	The 70th birthday of Zbigniew Galus. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 681.	1.2	0
61	Voltammetry in Undiluted Acetic Acid. In Situ Determination of Water. <i>Electroanalysis</i> , 2004, 16, 355-359.	1.5	7
62	Microdimensional Polyaniline: Fabrication and Characterization of Dynamics of Charge Propagation at Microdisk Electrodes. <i>Electroanalysis</i> , 2004, 16, 1377-1384.	1.5	4
63	Voltammetric and Spectroscopic Studies of Charged and Uncharged Diferrocene Derivatives at Regular and Low Ionic Strength Solutions. <i>Analytical Letters</i> , 2004, 37, 979-994.	1.0	5
64	Efficiency of Solute Release from Thermoresponsive Poly(N-isopropylacrylamide) Gels: Electrochemical Studies. <i>Journal of Physical Chemistry B</i> , 2004, 108, 864-868.	1.2	24
65	Electroformation of Microlayers of Ionic Liquids in Undiluted Nitromethane and Its Homologues. Unusual Oscillations behind the Range of Limiting Steady-State Current. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1153-1159.	1.2	13
66	Supramolecular Derivatives of 9,10-Anthraquinone. Electrochemistry at Regular- and Low Ionic Strength and Complexing Properties. <i>Electroanalysis</i> , 2003, 15, 579-585.	1.5	27
67	Generalized Theory of Steady-State Voltammetry without a Supporting Electrolyte. Effect of Product and Substrate Diffusion Coefficient Diversity. <i>Analytical Chemistry</i> , 2002, 74, 4805-4813.	3.2	27
68	Properties of Microlayers of Ionic Liquids Generated at Microelectrode Surface in Undiluted Redox Liquids. Part II. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6943-6949.	1.2	10
69	Electrooxidation and Electroreduction of Undiluted Acetonitrile at Platinum Microelectrodes. In Situ Determination of Water in Acetonitrile. <i>Electroanalysis</i> , 2001, 13, 621-625.	1.5	14
70	Investigation of Complexation of Sodium Cation by Anthracene Crown Ethers. <i>Supramolecular Chemistry</i> , 2000, 12, 105-109.	1.5	4
71	Voltammetric Investigation of Host-Guest Systems in the Absence of a Supporting Electrolyte. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1999, 35, 3-10.	1.6	2
72	Migration and Diffusion Coupled with a Fast Preceding Reaction. Voltammetry at a Microelectrode. <i>Analytical Chemistry</i> , 1999, 71, 167-173.	3.2	23

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73	Conditions of Strict Voltammetric Reversibility of the H ⁺ /H ₂ Couple at Platinum Electrodes. <i>Analytical Chemistry</i> , 1999, 71, 243-246.	3.2	32
74	Physicochemical Consequences of Generating a Thin Layer of Ionic Liquid at Microelectrode Surface in Undiluted Redox Liquid. <i>Journal of Physical Chemistry B</i> , 1998, 102, 577-584.	1.2	21
75	Reverse Pulse Voltammetry and Double Potential Step Chronoamperometry as Useful Tools for Characterization of Electroactive Systems under the Conditions of Mixed Diffusional and Migrational Transport. <i>Analytical Chemistry</i> , 1998, 70, 5237-5243.	3.2	5
76	The role of redox mixed phases {ox x (C n red)1 $\hat{\alpha}$ x } in solid state electrochemical reactions and the effect of miscibility gaps in voltammetry. <i>Journal of Solid State Electrochemistry</i> , 1997, 1, 134-142.	1.2	28
77	Electrooxidation of ammonia and simple amines at titanium electrodes modified with a mixture of ruthenium and titanium dioxides. <i>Electroanalysis</i> , 1997, 9, 751-754.	1.5	16
78	Total anodic voltammetric waves of undiluted dimethylsulfoxide at Pt microelectrodes. <i>Electroanalysis</i> , 1995, 7, 1010-1014.	1.5	15
79	Reverse pulse voltammetry with waiting period at conventional disk electrodes: Theory. <i>Electroanalysis</i> , 1992, 4, 317-321.	1.5	5
80	Monte Carlo simulation of diffusional noise at microelectrodes. <i>Electroanalysis</i> , 1992, 4, 615-621.	1.5	6
81	Cyclic voltammetry involving amalgam formation at mercury film microelectrodes. <i>Electroanalysis</i> , 1990, 2, 203-207.	1.5	10