Zbigniew Stojek

List of Publications by Year
in descending order

81	1,211	361296 20	526166 27
papers	citations	h-index	g-index

83	83	83	1205
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of compositional and structural features on corrosion behavior of nickelâ€“tungsten alloys. Journal of Solid State Electrochemistry, 2009, 13, 263-275.	1.2	63
2	Degradable, thermo-, pH- and redox-sensitive hydrogel microcapsules for burst and sustained release of drugs. International Journal of Pharmaceutics, 2019, 569, 118589.	2.6	37
3	Improved cytotoxicity and preserved level of cell death induced in colon cancer cells by doxorubicin after its conjugation with iron-oxide magnetic nanoparticles. Toxicology in Vitro, 2016, 33, 45-53.	1.1	36
4	Stable and degradable microgels linked with cystine for storing and environmentally triggered release of drugs. Journal of Materials Chemistry B, 2015, 3, 7262-7270.	2.9	34
5	Conditions of Strict Voltammetric Reversibility of the H+/H2Couple at Platinum Electrodes. Analytical Chemistry, 1999, 71, 243-246.	3.2	32
6	Nanohydrogel with N,Nâ€² -bis(acryloyl)cystine crosslinker for high drug loading. International Journal of Pharmaceutics, 2017, 523, 336-342.	2.6	31
7	Electrochemical attachment of thermo- and pH sensitive interpenetrating-polymers-network hydrogel to conducting surface. Electrochimica Acta, 2015, 179, 372-378.	2.6	29
8	The role of redox mixed phases {ox x (C n red)1 â˜'x } in solid state electrochemical reactions and the effect of miscibility gaps in voltammetry. Journal of Solid State Electrochemistry, 1997, 1, 134-142.	1.2	28
9	New Anthraquinone Derivatives as Electrochemical Redox Indicators for the Visualization of the DNA Hybridization Process. Electroanalysis, 2010, 22, 49-59.	1.5	28
10	Hydrogel with chains functionalized with carboxyl groups as universal 3D platform in DNA biosensors. Biosensors and Bioelectronics, 2014, 54, 222-228.	5.3	28
11	Generalized Theory of Steady-State Voltammetry without a Supporting Electrolyte. Effect of Product and Substrate Diffusion Coefficient Diversity. Analytical Chemistry, 2002, 74, 4805-4813.	3.2	27
12	Supramolecular Derivatives of 9,10-Anthraquinone. Electrochemistry at Regular- and Low Ionic Strength and Complexing Properties. Electroanalysis, 2003, 15, 579-585.	1.5	27
13	Polymeric hydrogels modified with ornithine and lysine: Sorption and release of metal cations and amino acids. Journal of Polymer Science Part A, 2012, 50, 542-550.	2.5	27
14	Synthesis of cross-linked poly(acrylic acid) nanogels in an aqueous environment using precipitation polymerization: unusually high volume change. Royal Society Open Science, 2019, 6, 190981.	1.1	27
15	Efficiency of Solute Release from Thermoresponsive Poly(N-isopropylacrylamide) Gels:â€‰ Electrochemical Studies. Journal of Physical Chemistry B, 2004, 108, 864-868.	1.2	24
16	Modification of gold electrode with a monolayer of self-assembled microgels. Electrochimica Acta, 2018, 268, 531-538.	2.6	24
17	Migration and Diffusion Coupled with a Fast Preceding Reaction. Voltammetry at a Microelectrode. Analytical Chemistry, 1999, 71, 167-173.	3.2	23
18	Influence of polymer network-metal ion complexation on the swelling behaviour of new gels with incorporated Î±-amino acid groups. Soft Matter, 2010, 6, 1336.	1.2	23

#	Article	IF	Citations
19	Environmentally sensitive, quickly responding microgels with lattice channels filled with polyaniline. Journal of Materials Chemistry B, 2014, 2, 1483.	2.9	22
20	Physicochemical Consequences of Generating a Thin Layer of Ionic Liquid at Microelectrode Surface in Undiluted Redox Liquid. Journal of Physical Chemistry B, 1998, 102, 577-584.	1.2	21
21	Metal ion-driven synthesis of polyaniline composite doped with metallic nanocrystals at the boundary of two immiscible liquids. Journal of Solid State Electrochemistry, 2010, 14, 1303-1310.	1.2	21
22	Electroactive, Mediating and Thermosensitive Microgel Useful for Covalent Entrapment of Enzymes and Formation of Sensing Layer in Biosensors. Electroanalysis, 2018, 30, 2853-2860.	1.5	20
23	Nanoconjugates of ferrocene and carbon-encapsulated iron nanoparticles as sensing platforms for voltammetric determination of ceruloplasmin in blood. Biosensors and Bioelectronics, 2018, 102, 490-496.	5.3	19
24	Carbon-encapsulated iron nanoparticles as ferromagnetic matrix for oxygen reduction in absence and presence of immobilized laccase. Electrochimica Acta, 2014, 126, 115-121.	2.6	18
25	Environmentally sensitive hydrogel functionalized with electroactive and complexingâ€iron(III) catechol groups. Journal of Polymer Science Part A, 2017, 55, 3236-3242.	2.5	18
26	Electrooxidation of ammonia and simple amines at titanium electrodes modified with a mixture of ruthenium and titanium dioxides. Electroanalysis, 1997, 9, 751-754.	1.5	16
27	One Dimensional Volume-Phase Transition of N-Isopropylacrylamide Gels on the Surface of Gold Electrodes. Electroanalysis, 2005, 17, 1396-1400.	1.5	16
28	Lysine and Arginine Oligopeptides Tagged with Anthraquinone: Electrochemical Properties. Electroanalysis, 2012, 24, 975-982.	1.5	16
29	Electrochemical Properties of Microâ€and Regular Electrodes Modified with Environmentally Sensitive Poly(Nâ€Isopropylacrylamide) Gel via Electrochemically Induced Freeâ€Radical Polymerization. Electroanalysis, 2013, 25, 875-880.	1.5	16
30	Detection of Oxidative Damage of Synthetic Oligonucleotides Caused by Thallium(III) Complexes. Electroanalysis, 2014, 26, 340-350.	1.5	16
31	An environmentally sensitive three-component hybrid microgel. RSC Advances, 2016, 6, 83493-83500.	1.7	16
32	Triggering the Shrinking/Swelling Process in Thin Gel Layers on Conducting Surfaces by Applying an Appropriate Potential. ACS Applied Materials & Interfaces, 2019, 11, 12114-12120.	4.0	16
33	Total anodic voltammetric waves of undiluted dimethylsulfoxide at Pt microelectrodes. Electroanalysis, 1995, 7, 1010-1014.	1.5	15
34	Enzymeâ€Amplified Amperometric Detection of DNA Using Redox Mediating Films on Gold Microelectrodes. Electroanalysis, 2009, 21, 342-350.	1.5	15
35	Conformational control of human transferrin covalently anchored to carbon-coated iron nanoparticles in presence of a magnetic field. Acta Biomaterialia, 2016, 45, 367-374.	4.1	15
36	A degradable nanogel drug carrier crosslinked with three-oligonucleotide hybrids for two-way drug release in mild and high hyperthermia treatment. Journal of Materials Chemistry B, 2017, 5, 4713-4724.	2.9	15

#	Article	IF	Citations
37	Recent Advances in Degradable Hybrids of Biomolecules and NGs for Targeted Delivery. Molecules, 2019, 24, 1873.	1.7	15
38	Redox-degradable microgel based on poly(acrylic acid) as drug-carrier with very high drug-loading capacity and decreased toxicity against healthy cells. Polymer Degradation and Stability, 2021, 190, 109652.	2.7	15
39	Electrooxidation and Electroreduction of Undiluted Acetonitrile at Platinum Microelectrodes. In Situ Determination of Water in Acetonitrile. Electroanalysis, 2001, 13, 621-625.	1.5	14
40	Electrochemical Examination of the Structure of Thin Hydrogel Layers Anchored to Regular and Microelectrode Surfaces. Journal of Physical Chemistry B, 2016, 120, 9540-9547.	1.2	14
41	Electroformation of Microlayers of Ionic Liquids in Undiluted Nitromethane and Its Homologues. Unusual Oscillations behind the Range of Limiting Steady-State Current. Journal of Physical Chemistry B, 2004, 108, 1153-1159.	1.2	13
42	Interactions of Dissolved dsDNA with Intercalating Drug by Anodic Voltammetry and Spectroscopy. Influence of pH. Electroanalysis, 2009, 21, 52-60.	1.5	13
43	Electroanalytical Properties of ITO Electrodes Modified with Environmentâ€Sensitive Poly(Nâ€isopropylacrylamide) Gel and Prussian Blue. Electroanalysis, 2009, 21, 1363-1368.	1.5	13
44	Construction of multifunctional materials by intrachannel modification of NIPA hydrogel with PANI-metal composites. Journal of Electroanalytical Chemistry, 2018, 812, 273-281.	1.9	13
45	Assembling Paramagnetic Ceruloplasmin at Electrode Surfaces Covered with Ferromagnetic Nanoparticles. Scanning Electrochemical Microscopy in the Presence of a Magnetic Field. Langmuir, 2015, 31, 8176-8183.	1.6	12
46	Mass transport affected by electrostatic barrier in ionized gel layers attached to microelectrode surface. Electrochemistry Communications, 2017, 81, 24-28.	2.3	12
47	Unusual swelling behavior of core-shell microgels built from polymers exhibiting lower critical solubility temperature. European Polymer Journal, 2017, 95, 314-322.	2.6	12
48	Diffusional and migrational transport of ionic species affected by electrostatic interactions with an oppositely charged hydrogel layer attached to an electrode surface. Electrochemistry Communications, 2018, 88, 97-100.	2.3	12
49	Nanocomposite hydrogel coatings: Formation of metal nanostructures by electrodeposition through thermoresponsive hydrogel layer. Electrochimica Acta, 2020, 363, 137243.	2.6	12
50	Degradable nanohydrogel with high doxorubicin loadings exhibiting controlled drug release and decreased toxicity against healthy cells. International Journal of Pharmaceutics, 2020, 579, 119188.	2.6	12
51	Micro- and nanoelectrode array behavior at regularly sized electrode modified with a thin film of thermoresponsive polymeric gel. Electrochimica Acta, 2018, 290, 595-604.	2.6	11
52	Cyclic voltammetry involving amalgam formation at mercury film microelectrodes. Electroanalysis, 1990, 2, 203-207.	1.5	10
53	Properties of Microlayers of Ionic Liquids Generated at Microelectrode Surface in Undiluted Redox Liquids. Part II. Journal of Physical Chemistry B, 2001, 105, 6943-6949.	1.2	10
54	Activity of Povidone in Recent Biomedical Applications with Emphasis on Micro- and Nano Drug Delivery Systems. Pharmaceutics, 2021, 13, 654.	2.0	9

#	Article	IF	Citations
55	Quartz crystal microbalance electrode modified with thermoresponsive crosslinked and non-crosslinked N-isopropylacrylamide polymers. Response to changes in temperature. Journal of Solid State Electrochemistry, 2016, 20, 3263-3270.	1.2	8
56	Electrochemical examination of ability of dsDNA/PAM composites for storing and releasing of doxorubicin. Bioelectrochemistry, 2016, 109, 1-8.	2.4	8
57	Voltammetry in Undiluted Acetic Acid. In Situ Determination of Water. Electroanalysis, 2004, 16, 355-359.	1.5	7
58	Microphase Separation in the Bulk in <scp>ABA</scp> Triblock Copolymerâ€based Model Conetworks: Effects of Core Crowding and Loop Formation. Macromolecular Theory and Simulations, 2013, 22, 323-334.	0.6	7
59	Polypyrroleâ€“gold nanostructured composite, active and durable electrocatalytic material. Journal of Solid State Electrochemistry, 2014, 18, 3049-3055.	1.2	7
60	Electrografting of carboxyphenyl thin layer onto gold for DNA and enzyme immobilization. Electrochimica Acta, 2014, 126, 11-18.	2.6	7
61	Optimization of CuW alloy electrodeposition towards high-tungsten content. Journal of Solid State Electrochemistry, 2016, 20, 3143-3150.	1.2	7
62	Environmentally sensitive nanohydrogels decorated with a three-strand oligonucleotide helix for controlled loading and prolonged release of intercalators. RSC Advances, 2016, 6, 91045-91059.	1.7	7
63	Monte Carlo simulation of diffusional noise at microelectrodes. Electroanalysis, 1992, 4, 615-621.	1.5	6
64	Changes in Performance of DNA Biosensor Caused by Hydroxyl Radicals. Electroanalysis, 2011, 23, 55-62.	1.5	6
65	Formation of Intermediate Layers for Immobilization of Biomacromolecules by Selfâ€Assembling and Reduction of Phenyldiazonium Salts. A Comparative Study. Electroanalysis, 2012, 24, 2053-2060.	1.5	6
66	Reverse pulse voltammetry with waiting period at conventional disk electrodes: Theory. Electroanalysis, 1992, 4, 317-321.	1.5	5
67	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. Analytical Chemistry, 1998, 70, 5237-5243.	3.2	5
68	Voltammetric and Spectroscopic Studies of Charged and Uncharged Diferrocene Derivatives at Regular and Low Ionic Strength Solutions. Analytical Letters, 2004, 37, 979-994.	1.0	5
69	Substantial Influence of Temperature on Anchoring of Goldâ€Nanoparticle Monolayer for Performance of DNA Biosensors. Electroanalysis, 2010, 22, 2323-2329.	1.5	5
70	Nanoparticles and Nanostructured Materials Used in Modification of Electrode Surfaces. ACS Symposium Series, 2012, , 313-325.	0.5	5
71	Investigation of Complexation of Sodium Cation by Anthracene Crown Ethers. Supramolecular Chemistry, 2000, 12, 105-109.	1.5	4
72	Microdimensional Polyaniline: Fabrication and Characterization of Dynamics of Charge Propagation at Microdisk Electrodes. Electroanalysis, 2004, 16, 1377-1384.	1.5	4

#	Article	IF	Citations
73	Repeated rearrangements of oligonucleotides immobilized on gold surface caused by UV irradiation in presence of dissolved oxygen. Electrochimica Acta, 2013, 110, 133-138.	2.6	4
74	Electrochemical chemoâ€•and biosensors based on microgels immobilized on electrode surface. Electrochemical Science Advances, 2022, 2, e2100162.	1.2	4
75	Using self-assembled monolayers for controlled electrodeposition of copper into submicrometer size surface features/decrements. Journal of Solid State Electrochemistry, 2006, 10, 288-292.	1.2	3
76	Spectroelectroanalytical Properties of Antitumor Agent C-1311. Electroanalysis, 2007, 19, 214-219.	1.5	3
77	Voltammetric Investigation of Hostâ€“Guest Systems in the Absence of a Supporting Electrolyte. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1999, 35, 3-10.	1.6	2
78	Voltammetry of Undiluted Redâ€Ox Systems. Electrochemical ESRâ€•and Electrochemical Impedance Spectroscopy Evidence for Formation of Ionic Liquid at Microelectrode Surface. Electroanalysis, 2008, 20, 9-13.	1.5	2
79	Strong enhancement of migrational contribution to the transport by charged gel microlayers anchored on electrode surface. Electrochimica Acta, 2021, 390, 138807.	2.6	2
80	Voltammetric Studies of Parallel Electrode Processes Under Low Ionic Strength Conditions. Influence of Convection. Electroanalysis, 2006, 18, 641-648.	1.5	1
81	The 70th birthday of Zbigniew Galus. Journal of Solid State Electrochemistry, 2004, 8, 681.	1.2	0