

Alexander A Nekrasov

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72
papers

704
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795
ext. citations

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avg, IF

3.71
L-index

#	Paper	IF	Citations
72	Analysis of the structure of polyaniline absorption spectra based on spectroelectrochemical data. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 482, 11-17	4.1	90
71	Chemical synthesis of polyaniline in the presence of poly(amidosulfonic acids) with different rigidity of the polymer chain. <i>Polymer</i> , 2011 , 52, 2474-2484	3.9	44
70	Electrochemical synthesis of polyaniline in the presence of poly(amidosulfonic acid)s with different rigidity of polymer backbone and characterization of the films obtained. <i>Electrochimica Acta</i> , 2008 , 53, 3789-3797	6.7	33
69	Redox heterogeneity in polyaniline films: from molecular to macroscopic scale. <i>Synthetic Metals</i> , 2005 , 152, 153-156	3.6	30
68	Templating effect of polymeric sulfonic acids on electropolymerization of aniline. <i>Electrochimica Acta</i> , 2014 , 122, 150-158	6.7	29
67	Template Synthesis of Polyaniline in the Presence of Poly-(2-acrylamido-2-methyl-1-propanesulfonic Acid). <i>Russian Journal of Electrochemistry</i> , 2004 , 40, 299-304	3.4	29
66	A comparative voltabsorptometric study of polyaniline films prepared by different methods. <i>Electrochimica Acta</i> , 2001 , 46, 3301-3307	6.7	29
65	Voltabsorptometric study of structural memory effects in polyaniline. <i>Electrochimica Acta</i> , 2005 , 50, 1605-1613	6.7	27
64	Effect of pH on the structure of absorption spectra of highly protonated polyaniline analyzed by the AlentsevBock method. <i>Electrochimica Acta</i> , 2001 , 46, 4051-4056	6.7	21
63	Electroactive films of interpolymer complexes of polyaniline with polyamidosulfonic acids: advantageous features in some possible applications. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 1975-1984	2.6	20
62	Ultraviolet-Visible-Near Infrared and Raman spectroelectrochemistry of poly(3,4-ethylenedioxythiophene) complexes with sulfonated polyelectrolytes. The role of inter- and intra-molecular interactions in polyelectrolyte. <i>Electrochimica Acta</i> , 2016 , 222, 409-420	6.7	17
61	Electrochromic properties of vacuum-evaporated polyaniline films. <i>Synthetic Metals</i> , 1996 , 83, 249-251	3.6	17
60	Spectroelectrochemical, EPR and conductivity investigations of thin films of vacuum deposited polyaniline. <i>Electrochimica Acta</i> , 1996 , 41, 1811-1814	6.7	17
59	Electrochemical polymerization process and excellent electrochromic properties of ferrocene-functionalized polytriphenylamine derivative. <i>Dyes and Pigments</i> , 2019 , 163, 433-440	4.6	15
58	Fractionating vacuum thermal deposition of polyaniline films. Effect of post-deposition acid-base treatment. <i>Synthetic Metals</i> , 1994 , 65, 71-76	3.6	14
57	Raman spectroelectrochemical study of electrodeposited polyaniline doped with polymeric sulfonic acids of different structures. <i>Chemical Papers</i> , 2017 , 71, 449-458	1.9	13
56	The specific effect of graphene additives in polyaniline-based nanocomposite layers on performance characteristics of electroluminescent and photovoltaic devices. <i>High Energy Chemistry</i> , 2016 , 50, 134-138	0.9	13

55	Comparative spectroelectrochemical investigation of vacuum evaporated and electrochemically synthesized electrochromic polyaniline films ag]. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 372, 57-61 ^{4.1}	12
54	Specific features characterizing electrochemical synthesis of polyaniline conducted in the presence of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) and the spectroelectrochemical characteristics of the obtained films. <i>Russian Journal of Electrochemistry</i> , 2006 , 42, 1085-1092	1.2 11
53	Graphene nanosheet/polyaniline composite for transparent hole transporting layer. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 65, 309-317	6.3 11
52	Dominating influence of rigid-backbone polyacid matrix during electropolymerization of aniline in the presence of mixtures of poly(sulfonic acids). <i>Electrochimica Acta</i> , 2011 , 56, 3460-3467	6.7 10
51	Effect of matrix domination in PANI interpolymer complexes with polyamidosulfonic acids. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 2011-2019	2.6 9
50	Spectroelectrochemical study of vacuum deposited polyaniline films subjected to postdeposition treatment by HNO ₃ . <i>Electrochimica Acta</i> , 1999 , 44, 2317-2326	6.7 9
49	Electrochemical and chemical synthesis of polyaniline on the surface of vacuum deposited polyaniline films. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 412, 133-137	4.1 9
48	A stable aqueous dispersion of polyaniline and polymeric acid. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2016 , 52, 1005-1011	0.9 9
47	The influence of polyacid nature on poly(3,4-ethylenedioxythiophene) electrosynthesis and its spectroelectrochemical properties. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 2991-3001	2.6 9
46	Mechanochemical synthesis of polyaniline in the presence of polymeric sulfonic acids of different structure. <i>Synthetic Metals</i> , 2013 , 180, 64-72	3.6 8
45	Photorefractive polymer composites based on ruthenium (II) tetra-15-crown-5-phthalocyanate axially coordinating ethylisonicotinate molecules photosensitive in telecommunication range. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2009 , 45, 535-542	0.9 8
44	Electrodeposition of thin films of polypyrrole-polyelectrolyte complexes and their ammonia-sensing properties. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 3091-3103	2.6 8
43	Nanocomposite of Polyaniline with Partially Oxidized Graphene as the Transport Layer of Light-Emitting Polymer Diodes. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 96-102	1.3 7
42	Structure of supramolecular assemblies of ruthenium(II) complexes and nonlinear optical and photorefractive properties of polymer composites on their basis. <i>High Energy Chemistry</i> , 2009 , 43, 543-551 ^{0.9}	7
41	The spectroelectrochemical behavior of films of polyaniline interpolymer complexes in the near infrared spectral region. <i>Russian Journal of Electrochemistry</i> , 2012 , 48, 197-204	1.2 6
40	On the nature of influence of polyelectrolyte molecular weight on aniline electropolymerization. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2643-2652	2.6 6
39	Synthesis and luminescence properties of lithium, zinc and scandium 1-(2-pyridyl)naphtholates. <i>Organic Electronics</i> , 2012 , 13, 3203-3210	3.5 6
38	Angular Dependence of Raman Spectra for Electroactive Polymer Films on a Platinum Electrode. <i>Russian Journal of Electrochemistry</i> , 2019 , 55, 175-183	1.2 5

37	Water-processable nanocomposite based on polyaniline and 2D molybdenum disulfide for NIR-transparent ambipolar transport layers. <i>Chemical Papers</i> , 2018 , 72, 1741-1752	1.9	5
36	Spectroelectrochemical processes in polyaniline films prepared by different methods. <i>Russian Journal of Electrochemistry</i> , 2011 , 47, 1-14	1.2	5
35	Influence of structure of polyacid on synthesis and properties of interpolymer polyaniline complexes. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2010 , 46, 540-545	0.9	5
34	Filament-like structure formation in vacuum thermally evaporated thin films of polyaniline during oxidation in nitric acid. <i>Mendeleev Communications</i> , 1998 , 8, 4-5	1.9	5
33	Formation of the heterogeneous structure of the vacuum deposited polyaniline films. <i>Synthetic Metals</i> , 2001 , 119, 375-376	3.6	5
32	On the Nature of Heterogeneity in Vacuum Deposited Polyaniline Films. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 600, 221		5
31	The effect of counterion in polymer sulfonates on the synthesis and properties of poly-3,4-ethylenedioxythiophene. <i>Russian Journal of Electrochemistry</i> , 2016 , 52, 1191-1201	1.2	5
30	Electrochemically-Obtained Polysulfonic-Acids Doped Polyaniline Films-A Comparative Study by Electrochemical, Microgravimetric and XPS Methods. <i>Polymers</i> , 2020 , 12,	4.5	4
29	A Water-Soluble Polyaniline Complex for Ink-Jet Printing of Optoelectronic Devices. <i>Technical Physics Letters</i> , 2018 , 44, 239-242	0.7	4
28	Nanoobjects of interpolymer complexes of polyaniline and PAMPSA in aqueous solutions. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 359-363	0.3	4
27	On the Role Played by Dimers of Radical Cations in the Process of Electrochemical Oxidation/Reduction of Polyaniline: The Data that Were Obtained Using the Method of Cyclic Voltabsorptometry in the Presence of Counteranions of a Diverse Nature. <i>Russian Journal of Electrochemistry</i> , 2004 , 40, 249-258	1.2	4
26	Electrochemical Synthesis of Poly-o-phenylenediamine and Its Spectroelectrochemical Properties. <i>Russian Journal of Electrochemistry</i> , 2004 , 40, 1214-1218	1.2	4
25	Multilevel redox heterogeneity in polyaniline films: from molecular to macroscopic scale. <i>Materials Science and Engineering C</i> , 2003 , 23, 953-957	8.3	4
24	Ink-Jet Printing of Polyaniline Layers for Perovskite Solar Cells. <i>Technical Physics Letters</i> , 2019 , 45, 858-861		3
23	Physicochemical Properties of Chemically and Mechanochemically Prepared Interpolymer Complexes of Poly(3,4-Ethylenedioxythiophene) with Polyamidosulfonate Dopants. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 21-28	1.3	3
22	Effect of polymer sulfoacids with varying chain rigidity on the nucleation of their interpolymer complexes with polyaniline during electropolymerization on highly orientated pyrolytic graphite. <i>Russian Journal of Electrochemistry</i> , 2014 , 50, 1105-1117	1.2	3
21	Electrochemical synthesis and spectroelectrochemical properties of nanostructured polyaniline layers in the presence of various polyamidosulfonic acids. <i>Protection of Metals</i> , 2008 , 44, 577-581		3
20	Poly(3,4-ethylenedioxythiophene) Electrosynthesis in the Presence of Mixtures of Flexible-Chain and Rigid-Chain Polyelectrolytes. <i>Polymers</i> , 2021 , 13,	4.5	3

19	Spectroelectrochemical investigation of electrodeposited polypyrrole complexes with sulfonated polyelectrolytes. <i>Electrochimica Acta</i> , 2021 , 382, 138307	6.7	3
18	Aging of Water-Soluble Formulations for Inkjet Printing of Functional Layers Based on Polyaniline. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019 , 55, 491-494	0.9	2
17	Preparation of polyaniline in the presence of polymeric sulfonic acids mixtures: the role of intermolecular interactions between polyacids. <i>Chemical Papers</i> , 2013 , 67,	1.9	2
16	Nonadditive phenomena during polyaniline synthesis in the presence of mixtures of rigid-chain and flexible-chain polymer sulfoacids and their effect on properties of obtained interpolymer complexes. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2011 , 47, 503-511	0.9	2
15	Peculiarities of polyaniline matrix synthesis in the presence of mixtures of different types of matrices and investigation of properties of formed interpolymer complexes. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2009 , 45, 548-552	0.9	2
14	Multilevel heterogeneity in electrochromic polyaniline films 2001 ,		2
13	Raman spectroelectrochemical monitoring of conducting polymer electrosynthesis on reflective metallic electrode: Effects due to double excitation of the electrode/film/solution interfaces. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 873, 114415	4.1	2
12	Electrochemical Polymerization of Pyrrole in the Presence of Sulfoacid Polyelectrolytes. <i>Russian Journal of Electrochemistry</i> , 2019 , 55, 1110-1117	1.2	2
11	Some Specific Features in the Applying the Method of Raman Spectroelectrochemistry while Studying Polyaniline Electrosynthesis in Polymeric-Acid Medium. <i>Russian Journal of Electrochemistry</i> , 2019 , 55, 1077-1085	1.2	2
10	Complexes of poly-3,4-ethylenedioxythiophene with polymeric sulfonic acids of different structures: Synthesis and optical and electric properties. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015 , 51, 390-395	0.9	1
9	The Synthesis of Polyaniline in Polyethylene Films with Grafted Sulfonated Polystyrene and Properties of These Films. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020 , 56, 725-733	0.9	1
8	Comparison of Optical Ammonia-Sensing Properties of Conducting Polymer Complexes with Polysulfonic Acids. <i>Chemosensors</i> , 2021 , 9, 206	4	1
7	Isolation of individual components in the electronic absorption spectra of polyaniline from the spectroelectrochemical data. <i>Russian Journal of Electrochemistry</i> , 2000 , 36, 883-888	1.2	0
6	Semiconductor Photoelectrochemical Photographic Device Based on Cadmium Selenide. <i>Journal of Photographic Science</i> , 1993 , 41, 43-47		0
5	Hole transporting electrodeposited PEDOT polyelectrolyte layers for perovskite solar cells. <i>Mendeleev Communications</i> , 2021 , 31, 454-455	1.9	0
4	Raman spectroelectrochemical study of pyrrole electropolymerization in the presence of sulfonated polyelectrolytes. <i>Electrochimica Acta</i> , 2021 , 390, 138869	6.7	0
3	Chemical polymerization of aniline in the presence of mixtures of polymeric sulfonic acids. <i>Polymer Science - Series B</i> , 2013 , 55, 187-194	0.8	
2	Self-Organization and Analysis of the Morphology of Vacuum Evaporated Polyaniline Films. <i>Russian Journal of Electrochemistry</i> , 2004 , 40, 349-351	1.2	

- 1 Corona inhibition by photochemical dissolution of Al films by polymeric composition. *Journal of Photochemistry and Photobiology A: Chemistry*, **2001**, 138, 23-27

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