

Alexander A. Pud

List of Publications by Year in descending order

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279798

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100
all docs

100
docs citations

100
times ranked

2482
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and properties of core-shell halloysite-polyaniline nanocomposites. Applied Nanoscience (Switzerland), 2022, 12, 1285-1294.	3.1	5
2	The Impact of Interfacial Interactions on Structural, Electronic, and Sensing Properties of Poly(3-methylthiophene) in Core-shell Nanocomposites. Application for Chemical Warfare Agent Simulants Detection. Macromolecular Materials and Engineering, 2022, 307, .	3.6	6
3	Broadband dielectric characterization of flexible substrates using organic conductive polymer microstrip lines. Microwave and Optical Technology Letters, 2020, 62, 688-695.	1.4	1
4	Thermosensitive ternary core-shell nanocomposites of polystyrene, poly(N-isopropylacrylamide) and polyaniline. Applied Nanoscience (Switzerland), 2020, 10, 4951-4964.	3.1	6
5	Polyaniline Doping by β , γ -Difluoro- β -amino Acids. ACS Omega, 2019, 4, 7400-7410.	3.5	9
6	High effectiveness of pure polydopamine in extraction of uranium and plutonium from groundwater and seawater. RSC Advances, 2019, 9, 30052-30063.	3.6	11
7	On the importance of interface interactions in core-shell nanocomposites of intrinsically conducting polymers. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2019, 22, 470-478.	1.0	7
8	Flexible UWB organic antenna for wearable technologies application. IET Microwaves, Antennas and Propagation, 2018, 12, 160-166.	1.4	54
9	Poly(vinylidene fluoride)/poly(3-methylthiophene) core-shell nanocomposites with improved structural and electronic properties of the conducting polymer component. Physical Chemistry Chemical Physics, 2018, 20, 6450-6461.	2.8	15
10	Magnetodielectric Nanocomposite Polymer-Based Dual-Band Flexible Antenna for Wearable Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 3271-3277.	5.1	44
11	From Drifting Polyaniline Sensor to Accurate Sensor Array for Breath Analysis. , 2018, , .		1
12	Polyaniline nanocomposites based sensor array for breath ammonia analysis. Portable e-nose approach to non-invasive diagnosis of chronic kidney disease. Sensors and Actuators B: Chemical, 2018, 274, 616-626.	7.8	72
13	Effect of the Dopant Anion and Oxidant on the Structure and Properties of Nanocomposites of Polypyrrole and Carbon Nanotubes. Theoretical and Experimental Chemistry, 2018, 54, 114-121.	0.8	8
14	Design, fabrication and characterization of a new wideband antenna based on a Polyaniline/Carbon coated Cobalt composite. , 2017, , .		1
15	UV-light induced solid-phase photodegradation in PANI nanocomposites. , 2017, , .		0
16	The specificity of the core-shell polyvinylidene/polyaniline nanocomposite sensing applications. , 2017, , .		0
17	Hybrid and Bio Nanocomposites for Ultrasensitive Ammonia Sensors. Proceedings (mdpi), 2017, 1, .	0.2	3
18	New nanocomposites of polystyrene with polyaniline doped with lauryl sulfuric acid. Nanoscale Research Letters, 2017, 12, 493.	5.7	11

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19	Macroscopic versus microscopic photovoltaic response of heterojunctions based on mechanochemically prepared nanopowders of kesterite and n-type semiconductors. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2017, 20, 418-423.	1.0	2
20	Acid-dopant effects in the formation and properties of polycarbonate-polyaniline composites. <i>Synthetic Metals</i> , 2016, 217, 266-275.	3.9	13
21	Influence of Dispersed Nanoparticles on the Kinetics of Formation and Molecular Mass of Polyaniline. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10106-10113.	2.6	7
22	The PANI-DBSA content and dispersing solvent as influencing parameters in sensing performances of TiO ₂ /PANI-DBSA hybrid nanocomposites to ammonia. <i>RSC Advances</i> , 2016, 6, 82625-82634.	3.6	11
23	Development of a patch antenna based on a Polyaniline/Carbon coated Cobalt composite. , 2016, , .		2
24	Hybrid solar cell on a carbon fiber. <i>Nanoscale Research Letters</i> , 2016, 11, 265.	5.7	18
25	Evolution and Interdependence of Structure and Properties of Nanocomposites of Multiwall Carbon Nanotubes with Polyaniline. <i>Journal of Physical Chemistry C</i> , 2016, 120, 230-242.	3.1	35
26	Multifunctional Role of Nanostructured CdS Interfacial Layers in Hybrid Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 752-758.	0.9	7
27	Ammonia/amine electronic gas sensors based on hybrid polyaniline-TiO ₂ nanocomposites. The effects of titania and the surface active doping acid. <i>RSC Advances</i> , 2015, 5, 20218-20226.	3.6	45
28	Effect of Multiwalled Carbon Nanotubes on the Kinetics of the Aniline Polymerization: The Semi-Quantitative OCP Approach. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5055-5061.	2.6	9
29	π-π Anion-chromic interactions of emeraldine base with hydroxide and halide anions in the solid polymer matrix. <i>Synthetic Metals</i> , 2015, 209, 232-239.	3.9	4
30	Dual-Band Elliptical Planar Conductive Polymer Antenna Printed on a Flexible Substrate. <i>IEEE Transactions on Antennas and Propagation</i> , 2015, 63, 5864-5867.	5.1	39
31	Polyaniline/poly(ethylene terephthalate) film as a new optical sensing material. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 398-407.	7.8	27
32	Polyaniline-carbon nanotubes composites — Based patch antenna. , 2014, , .		6
33	Efficient Bilayer Electrodes for Photosensitive Organic Heterostructure. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 589, 162-170.	0.9	0
34	Effect of the Nature of the Template on the Structure and Properties of Electrodeposited Vertically Aligned Submicron ZnO Rods. <i>Theoretical and Experimental Chemistry</i> , 2013, 49, 255-260.	0.8	0
35	Application of a CdS nanostructured layer in inverted solar cells. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495114.	2.8	7
36	Deep Impact of the Template on Molecular Weight, Structure, and Oxidation State of the Formed Polyaniline. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5306-5314.	2.6	33

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37	Poly(3-methylthiophene)â€“ polyaniline couple spectroelectrochemistry revisited for the complementary redâ€“greenâ€“blue electrochromic device. <i>Electrochimica Acta</i> , 2013, 106, 114-120.	5.2	22
38	Hybrid Solar Cells Based on CdS Nanowire Arrays. <i>Advanced Materials Research</i> , 2013, 854, 75-82.	0.3	2
39	Carbon fiber as a flexible quasi-ohmic contact to cadmium sulfide micro- and nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1851-1855.	1.8	5
40	P2.3.9 Polyaniline/poly(ethylene terephthalate) films as a sensing material in optical sensors for basic and acidic substances. , 2012, , .		0
41	Tetraalkylammonium hydroxide template effects in electrodeposited nanostructured ZnO layers. , 2012, , .		0
42	Electrochemically assembled planar hybrid poly(3-methylthiophene)/ZnO nanostructured composites. <i>Electrochimica Acta</i> , 2012, 81, 83-89.	5.2	7
43	Tuning of the charge and energy transfer in ternary CdSe/poly(3-methylthiophene)/poly(3-hexylthiophene) nanocomposite system. <i>Colloid and Polymer Science</i> , 2012, 290, 1145-1156.	2.1	8
44	Evidence of the Controlled Interaction between PEDOT and PSS in the PEDOT:PSS Complex via Concentration Changes of the Complex Solution. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1357-1362.	2.6	50
45	Interaction of polyaniline with hydroxyl-ions in N-methylpyrrolidinone. <i>Synthetic Metals</i> , 2011, 161, 1813-1819.	3.9	4
46	In-situ conductivity and UV-VIS absorption monitoring of iodine doping-dedoping processes in poly(3-hexylthiophene) (P3HT). <i>Journal of Physics: Conference Series</i> , 2011, 286, 012009.	0.4	8
47	Nanostructured polyaniline-based composites for ppb range ammonia sensing. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 1394-1403.	7.8	93
48	Structureâ€“property relationship in aliphatic polyamide/polyaniline surface layered composites. <i>Materials Chemistry and Physics</i> , 2011, 130, 760-768.	4.0	17
49	Effect of water-soluble polyaniline on the reduction of oxygen and the reaction of its active forms with antioxidants. <i>Theoretical and Experimental Chemistry</i> , 2011, 47, 238-243.	0.8	0
50	Synthesis and Properties of Hybrid Poly(3-Methylthiophene)-CdSe Nanocomposite and Estimation of Its Photovoltaic Ability. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 536, 33/[265]-40/[272].	0.9	6
51	A photovoltaic response of a Schottky diode based on the conducting polymer PEDOT:PSS and inorganic semiconductors. <i>EPJ Applied Physics</i> , 2010, 51, 20301.	0.7	1
52	In situ spectroelectrochemical study of dissolved oligomer products formed in the electrochemical polymerization of 3-methylthiophene. <i>Theoretical and Experimental Chemistry</i> , 2010, 46, 158-162.	0.8	2
53	Formation of nanostructured composites with environmentally-dependent electrical properties based on poly(vinylidene fluoride)â€“ polyaniline coreâ€“shell latex system. <i>Polymer</i> , 2010, 51, 2000-2006.	3.8	29
54	Electronic and optical features of N,Nâ€“bis(4-aminophenyl)1,4-quinonediimine doped with silicotungsten polyacid: Experimental and numerical studies. <i>Chemical Physics Letters</i> , 2010, 497, 76-80.	2.6	1

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55	Ternary magnetic nanocomposites based on core-shell Fe ₃ O ₄ /polyaniline nanoparticles distributed in PVDF matrix. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 442-447.	1.8	17
56	Structure and properties of polymer core-shell systems: Helium ion microscopy and electrical conductivity studies. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, C6P59-C6P65.	1.2	5
57	Interfacial properties and formation of a Schottky barrier at the CdS/PEDOT/PSS hybrid junction. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 185301.	2.8	13
58	Electronic and optical features of silicon carbide nanoparticles and nanocomposites. , 2009, , .		0
59	Different roles of cadmium and sulfur (selenium)-terminated crystal facets in the formation of a photovoltaic response from hybrid organic/inorganic CdS (CdSe) heterojunctions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2645-2651.	1.8	7
60	PEDOT:PSS films—Effect of organic solvent additives and annealing on the film conductivity. <i>Synthetic Metals</i> , 2009, 159, 2237-2239.	3.9	143
61	Formation and properties of nano- and micro-structured conducting polymer host-guest composites. <i>Synthetic Metals</i> , 2009, 159, 2253-2258.	3.9	8
62	Doping of CdS nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 147, 254-257.	3.5	6
63	Effect of the nature of acid dopant and oxidizer on the polymerization of aniline in the presence of polycarbonate dispersion. <i>Theoretical and Experimental Chemistry</i> , 2008, 44, 54-59.	0.8	5
64	An estimate of shape distribution of small CdS particles with luminescence spectra. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2977-2981.	2.7	1
65	Probing of Charge and Energy Transfer in Hybrid Systems of Aniline-3-Methylthiophene Copolymer with CdS and CdSe Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14745-14753.	3.1	21
66	Polyamide-12/Polyaniline Layered Composite Films: Specificity of the Formation and Raman Spectroscopy Investigation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2007, 44, 183-192.	2.2	9
67	Hybrid Core-Shell Nanocomposites Based on Silicon Carbide Nanoparticles Functionalized by Conducting Polyaniline: Electron Paramagnetic Resonance Investigations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11544-11551.	3.1	39
68	New Aspects of the Low-Concentrated Aniline Polymerization in the Solution and in SiC Nanocrystals Dispersion. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2174-2180.	2.6	30
69	Electrical properties and fractal behavior of polyurethane elastomer/polyaniline composites under mechanical deformation. <i>Polymer</i> , 2007, 48, 4429-4437.	3.8	32
70	Linear electro-optical behavior of hybrid nanocomposites based on silicon carbide nanocrystals and polymer matrices. <i>Physical Review B</i> , 2006, 74, .	3.2	17
71	Effects of surface and volume modification of poly(vinylidene fluoride) by polyaniline on the structure and electrical properties of their composites. <i>Polymer</i> , 2005, 46, 11728-11736.	3.8	43
72	Structure/Property Relationships for Poly(Vinylidene Fluoride)/Doped Polyaniline Blends. <i>Journal of Macromolecular Science - Physics</i> , 2005, 44, 749-759.	1.0	8

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73	The influence of the polymer matrix on the dielectric and electrical properties of conductive polymer composites based on polyaniline. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2835-2841.	3.1	43
74	Nature of Initiators for Indirect Electrochemical Reductive Degradation of Polycarbonates in Dimethylformamide. <i>Theoretical and Experimental Chemistry</i> , 2004, 40, 33-38.	0.8	2
75	Corrosion inhibition of aluminum alloy in chloride mediums by undoped and doped forms of polyaniline. <i>Synthetic Metals</i> , 2004, 143, 43-47.	3.9	109
76	Some aspects of preparation methods and properties of polyaniline blends and composites with organic polymers. <i>Progress in Polymer Science</i> , 2003, 28, 1701-1753.	24.7	390
77	Electrochemical Polymerization of Aniline in Polyamide and Polyvinyl Alcohol Matrices. <i>Theoretical and Experimental Chemistry</i> , 2002, 38, 33-36.	0.8	4
78	Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 3355-3363.	3.7	28
79	Reactions at the lower potential limit in aprotic medium at a platinum cathode revisited: their role in indirect electrochemical reductive degradation of polymers. <i>Journal of Electroanalytical Chemistry</i> , 2000, 480, 1-8.	3.8	11
80	Electrochemical stability and transformations of fluorinated poly(2,6-dimethyl-1,4-phenylene oxide). <i>Polymer Degradation and Stability</i> , 2000, 70, 409-415.	5.8	5
81	Electrochemical reductive decomposition of polyacrylonitrile. <i>Theoretical and Experimental Chemistry</i> , 2000, 36, 220-223.	0.8	1
82	Electropolymerization of pyrrole in polymer matrices. <i>Russian Journal of Electrochemistry</i> , 2000, 36, 447-447.	0.9	5
83	Investigation of Processes Occurring at the Metal/Polymer Coating/Electrolyte Interface. <i>Journal of Adhesion</i> , 1999, 71, 55-80.	3.0	4
84	Electrochemical behavior of mild steel coated by polyaniline doped with organic sulfonic acids. <i>Synthetic Metals</i> , 1999, 107, 111-115.	3.9	63
85	Electrochemical properties of low-molecular carbonates and polycarbonates on the cathode. <i>Theoretical and Experimental Chemistry</i> , 1998, 34, 348-351.	0.8	1
86	Indirect electrochemical reductive degradation of polycarbonates. <i>Theoretical and Experimental Chemistry</i> , 1998, 34, 292-296.	0.8	1
87	Electrochemical reduction of some saturated and unsaturated perfluorocarbons. <i>Electrochimica Acta</i> , 1995, 40, 1157-1164.	5.2	28
88	Indirect Electrochemical Dehydrochlorination of Polyvinylchloride. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1995, 32, 687-693.	2.2	5
89	Electrochemically Induced Functionalization of Fluorocontaining Polyolefins. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1995, 32, 621-628.	2.2	2
90	Electrochemical Reductive Degradation of Polydiphenylpropanecarbonate. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1995, 32, 613-620.	2.2	5

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91	Electrochemistry as the Way to Transform Polymers. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 629-638.	2.2	19
92	Stability and degradation of conducting polymers in electrochemical systems. Synthetic Metals, 1994, 66, 1-18.	3.9	199
93	Surface electrochemical reactions and the subsequent degradation of solid-phase poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 5.8 10	5.8	10
94	Electrochemical reductive breakdown of solid-phase chlorinated rubber in aprotic and aqueous media. Theoretical and Experimental Chemistry, 1989, 25, 653-658.	0.8	0
95	The electrochemical reductive degradation of polyvinyl chloride. Polymer Science USSR, 1987, 29, 1564-1572.	0.2	3
96	Electrochemical reductive degradation of polyethylene terephthalate. Theoretical and Experimental Chemistry, 1985, 20, 548-553.	0.8	0
97	Degradation of some carbon-chain polymers by electrochemical reduction. Polymer Science USSR, 1985, 27, 2427-2431.	0.2	8
98	Electrochemical reductive destruction of polytetrafluoroethylene. Theoretical and Experimental Chemistry, 1984, 20, 234-236.	0.8	4
99	Mechanism of electrochemical reduction of unsaturated oligoesters on solid electrodes. Theoretical and Experimental Chemistry, 1983, 19, 209-212.	0.8	0
100	Study of the dissociation of imidazoline derivatives by means of a field mass spectrometer. Theoretical and Experimental Chemistry, 1980, 15, 323-332.	0.8	0