Alexander A. Pud

List of Publications by Year
in descending order

100	2,128	279798	243625
papers	citations	23 h-index	44 g-index

100	100	100	2482
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Some aspects of preparation methods and properties of polyaniline blends and composites with organic polymers. Progress in Polymer Science, 2003, 28, 1701-1753.	24.7	390
2	Stability and degradation of conducting polymers in electrochemical systems. Synthetic Metals, 1994, 66, 1-18.	3.9	199
3	PEDOT:PSS filmsâ€"Effect of organic solvent additives and annealing on the film conductivity. Synthetic Metals, 2009, 159, 2237-2239.	3.9	143
4	Corrosion inhibition of aluminum alloy in chloride mediums by undoped and doped forms of polyaniline. Synthetic Metals, 2004, 143, 43-47.	3.9	109
5	Nanostructured polyaniline-based composites for ppb range ammonia sensing. Sensors and Actuators B: Chemical, 2011, 160, 1394-1403.	7.8	93
6	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
7	Electrochemical behavior of mild steel coated by polyaniline doped with organic sulfonic acids. Synthetic Metals, 1999, 107, 111-115.	3.9	63
8	Flexible UWB organic antenna for wearable technologies application. IET Microwaves, Antennas and Propagation, 2018, 12, 160-166.	1.4	54
9	Evidence of the Controlled Interaction between PEDOT and PSS in the PEDOT:PSS Complex via Concentration Changes of the Complex Solution. Journal of Physical Chemistry B, 2011, 115, 1357-1362.	2.6	50
10	Ammonia/amine electronic gas sensors based on hybrid polyanilineâ€"TiO₂ nanocomposites. The effects of titania and the surface active doping acid. RSC Advances, 2015, 5, 20218-20226.	3.6	45
11	Magnetodielectric Nanocomposite Polymer-Based Dual-Band Flexible Antenna for Wearable Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 3271-3277.	5.1	44
12	Effects of surface and volume modification of poly(vinylidene fluoride) by polyaniline on the structure and electrical properties of their composites. Polymer, 2005, 46, 11728-11736.	3.8	43
13	The influence of the polymer matrix on the dielectric and electrical properties of conductive polymer composites based on polyaniline. Journal of Non-Crystalline Solids, 2005, 351, 2835-2841.	3.1	43
14	Hybrid Coreâ^'Shell Nanocomposites Based on Silicon Carbide Nanoparticles Functionalized by Conducting Polyaniline:â€‰ Electron Paramagnetic Resonance Investigations. Journal of Physical Chemistry C, 2007, 111, 11544-11551.	3.1	39
15	Dual-Band Elliptical Planar Conductive Polymer Antenna Printed on a Flexible Substrate. IEEE Transactions on Antennas and Propagation, 2015, 63, 5864-5867.	5.1	39
16	Evolution and Interdependence of Structure and Properties of Nanocomposites of Multiwall Carbon Nanotubes with Polyaniline. Journal of Physical Chemistry C, 2016, 120, 230-242.	3.1	35
17	Deep Impact of the Template on Molecular Weight, Structure, and Oxidation State of the Formed Polyaniline. Journal of Physical Chemistry B, 2013, 117, 5306-5314.	2.6	33
18	Electrical properties and fractal behavior of polyurethane elastomer/polyaniline composites under mechanical deformation. Polymer, 2007, 48, 4429-4437.	3.8	32

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19	New Aspects of the Low-Concentrated Aniline Polymerization in the Solution and in SiC Nanocrystals Dispersion. Journal of Physical Chemistry B, 2007, 111, 2174-2180.	2.6	30
20	Formation of nanostructured composites with environmentally-dependent electrical properties based on poly(vinylidene fluoride)â€“polyaniline coreâ€“shell latex system. Polymer, 2010, 51, 2000-2006.	3.8	29
21	Electrochemical reduction of some saturated and unsaturated perfluorocarbons. Electrochimica Acta, 1995, 40, 1157-1164.	5.2	28
22	Title is missing!. Journal of Materials Science, 2001, 36, 3355-3363.	3.7	28
23	Polyaniline/poly(ethylene terephthalate) film as a new optical sensing material. Sensors and Actuators B: Chemical, 2014, 190, 398-407.	7.8	27
24	Poly(3-methylthiophene)â€“polyaniline couple spectroelectrochemistry revisited for the complementary redâ€“greenâ€“blue electrochromic device. Electrochimica Acta, 2013, 106, 114-120.	5.2	22
25	Probing of Charge and Energy Transfer in Hybrid Systems of Anilineâ”3-Methylthiophene Copolymer with CdS and CdSe Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 14745-14753.	3.1	21
26	Electrochemistry as the Way to Transform Polymers. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 629-638.	2.2	19
27	Hybrid solar cell on a carbon fiber. Nanoscale Research Letters, 2016, 11, 265.	5.7	18
28	Linear electro-optical behavior of hybrid nanocomposites based on silicon carbide nanocrystals and polymer matrices. Physical Review B, 2006, 74, .	3.2	17
29	Ternary magnetic nanocomposites based on coreâ€“shell Fe₃O₄/polyaniline nanoparticles distributed in PVDF matrix. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 442-447.	1.8	17
30	Structureâ€“property relationship in aliphatic polyamide/polyaniline surface layered composites. Materials Chemistry and Physics, 2011, 130, 760-768.	4.0	17
31	Poly(vinylidene fluoride)/poly(3-methylthiophene) coreâ€“shell nanocomposites with improved structural and electronic properties of the conducting polymer component. Physical Chemistry Chemical Physics, 2018, 20, 6450-6461.	2.8	15
32	Interfacial properties and formation of a Schottky barrier at the CdS/PEDOTâ€‰:â€‰PSS hybrid junction. Journal Physics D: Applied Physics, 2010, 43, 185301.	2.8	13
33	Acid-dopant effects in the formation and properties of polycarbonate-polyaniline composites. Synthetic Metals, 2016, 217, 266-275.	3.9	13
34	Reactions at the lower potential limit in aprotic medium at a platinum cathode revisited: their role in indirect electrochemical reductive degradation of polymers. Journal of Electroanalytical Chemistry, 2000, 480, 1-8.	3.8	11
35	The PANI-DBSA content and dispersing solvent as influencing parameters in sensing performances of TiO₂/PANI-DBSA hybrid nanocomposites to ammonia. RSC Advances, 2016, 6, 82625-82634.	3.6	11
36	New nanocomposites of polystyrene with polyaniline doped with lauryl sulfuric acid. Nanoscale Research Letters, 2017, 12, 493.	5.7	11

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37	High effectiveness of pure polydopamine in extraction of uranium and plutonium from groundwater and seawater. RSC Advances, 2019, 9, 30052-30063.	3.6	11
38	Surface electrochemical reactions and the subsequent degradation of solid-phase poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	5.8	10
39	Polyamideâ€12/Polyaniline Layered Composite Films: Specificity of the Formation and Raman Spectroscopy Investigation. Journal of Macromolecular Science - Pure and Applied Chemistry, 2007, 44, 183-192.	2.2	9
40	Effect of Multiwalled Carbon Nanotubes on the Kinetics of the Aniline Polymerization: The Semi-Quantitative OCP Approach. Journal of Physical Chemistry B, 2015, 119, 5055-5061.	2.6	9
41	Polyaniline Doping by Î±,Î±-Difluoro-Î²-amino Acids. ACS Omega, 2019, 4, 7400-7410.	3.5	9
42	Degradation of some carbon-chain polymers by electrochemical reduction. Polymer Science USSR, 1985, 27, 2427-2431.	0.2	8
43	Structure/Property Relationships for Poly(Vinylidene Fluoride)/Doped Polyaniline Blends. Journal of Macromolecular Science - Physics, 2005, 44, 749-759.	1.0	8
44	Formation and properties of nano- and micro-structured conducting polymer hostâ€“guest composites. Synthetic Metals, 2009, 159, 2253-2258.	3.9	8
45	In-situ conductivity and UV-VIS absorption monitoring of iodine doping-dedoping processes in poly(3-hexylthiophene) (P3HT). Journal of Physics: Conference Series, 2011, 286, 012009.	0.4	8
46	Tuning of the charge and energy transfer in ternary CdSe/poly(3-methylthiophene)/poly(3-hexylthiophene) nanocomposite system. Colloid and Polymer Science, 2012, 290, 1145-1156.	2.1	8
47	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
48	Different roles of cadmiumâ€•and sulfur (selenium)â€terminated crystal facets in the formation of a photovoltaic response from hybrid organic/inorganic CdS (CdSe) heterojunctions. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2645-2651.	1.8	7
49	Electrochemically assembled planar hybrid poly(3-methylthiophene)/ZnO nanostructured composites. Electrochimica Acta, 2012, 81, 83-89.	5.2	7
50	Application of a CdS nanostructured layer in inverted solar cells. Journal Physics D: Applied Physics, 2013, 46, 495114.	2.8	7
51	Multifunctional Role of Nanostructured CdS Interfacial Layers in Hybrid Solar Cells. Journal of Nanoscience and Nanotechnology, 2015, 15, 752-758.	0.9	7
52	Influence of Dispersed Nanoparticles on the Kinetics of Formation and Molecular Mass of Polyaniline. Journal of Physical Chemistry B, 2016, 120, 10106-10113.	2.6	7
53	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
54	Doping of CdS nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 254-257.	3.5	6

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55	Synthesis and Properties of Hybrid Poly(3-Methylthiophene)-CdSe Nanocomposite and Estimation of Its Photovoltaic Ability. Molecular Crystals and Liquid Crystals, 2011, 536, 33/[265]-40/[272].	0.9	6
56	Polyaniline-carbon nanotubes composites — Based patch antenna. , 2014, , .		6
57	Thermosensitive ternary coreâ€“shell nanocomposites of polystyrene, poly(N-isopropylacrylamide) and polyaniline. Applied Nanoscience (Switzerland), 2020, 10, 4951-4964.	3.1	6
58	The Impact of Interfacial Interactions on Structural, Electronic, and Sensing Properties of Poly(3â€•methylthiophene) in Coreâ€Shell Nanocomposites. Application for Chemical Warfare Agent Simulants Detection. Macromolecular Materials and Engineering, 2022, 307, .	3.6	6
59	Indirect Electrochemical Dehydrochlorination of Polyvinylchloride. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 687-693.	2.2	5
60	Electrochemical Reductive Degradation of Polydiphenylpropancarbonate. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 613-620.	2.2	5
61	Electrochemical stability and transformations of fluorinated poly(2,6-dimethyl-1,4-phenylene oxide). Polymer Degradation and Stability, 2000, 70, 409-415.	5.8	5
62	Electropolymerization of pyrrole in polymer matrices. Russian Journal of Electrochemistry, 2000, 36, 447-447.	0.9	5
63	Effect of the nature of acid dopant and oxidizer on the polymerization of aniline in the presence of polycarbonate dispersion. Theoretical and Experimental Chemistry, 2008, 44, 54-59.	0.8	5
64	Structure and properties of polymer core-shell systems: Helium ion microscopy and electrical conductivity studies. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6P59-C6P65.	1.2	5
65	Carbon fiber as a flexible quasi-ohmic contact to cadmium sulfide micro- and nanocrystals. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1851-1855.	1.8	5
66	Synthesis and properties of coreâ€“shell halloysiteâ€“polyaniline nanocomposites. Applied Nanoscience (Switzerland), 2022, 12, 1285-1294.	3.1	5
67	Electrochemical reductive destruction of polytetrafluoroethylene. Theoretical and Experimental Chemistry, 1984, 20, 234-236.	0.8	4
68	Investigation of Processes Occurring at the Metal/Polymer Coating/Electrolyte Interface. Journal of Adhesion, 1999, 71, 55-80.	3.0	4
69	Electrochemical Polymerization of Aniline in Polyamide and Polyvinyl Alcohol Matrices. Theoretical and Experimental Chemistry, 2002, 38, 33-36.	0.8	4
70	Interaction of polyaniline with hydroxyl-ions in N-methylpyrrolidinone. Synthetic Metals, 2011, 161, 1813-1819.	3.9	4
71	â€œAnion-chromicâ€•interactions of emeraldine base with hydroxide and halide anions in the solid polymer matrix. Synthetic Metals, 2015, 209, 232-239.	3.9	4
72	The electrochemical reductive degradation of polyvinyl chloride. Polymer Science USSR, 1987, 29, 1564-1572.	0.2	3

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73	Hybrid and Bio Nanocomposites for Ultrasensitive Ammonia Sensors. Proceedings (mdpi), 2017, 1, .	0.2	3
74	Electrochemically Induced Functionalization of Fluorocontaining Polyolefins. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 621-628.	2.2	2
75	Nature of Initiators for Indirect Electrochemical Reductive Degradation of Polycarbonates in Dimethylformamide. Theoretical and Experimental Chemistry, 2004, 40, 33-38.	0.8	2
76	In situ spectroelectrochemical study of dissolved oligomer products formed in the electrochemical polymerization of 3-methylthiophene. Theoretical and Experimental Chemistry, 2010, 46, 158-162.	0.8	2
77	Hybrid Solar Cells Based on CdS Nanowire Arrays. Advanced Materials Research, 2013, 854, 75-82.	0.3	2
78	Development of a patch antenna based on a Polyaniline/Carbon coated Cobalt composite. , 2016, , .		2
79	Macroscopic versus microscopic photovoltaic response of heterojunctions based on mechanochemically prepared nanopowders of kesterite and n-type semiconductors. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2017, 20, 418-423.	1.0	2
80	Electrochemical properties of low-molecular carbonates and polycarbonates on the cathode. Theoretical and Experimental Chemistry, 1998, 34, 348-351.	0.8	1
81	Indirect electrochemical reductive degradation of polycarbonates. Theoretical and Experimental Chemistry, 1998, 34, 292-296.	0.8	1
82	Electrochemical reductive decomposition of polyacrylonitrile. Theoretical and Experimental Chemistry, 2000, 36, 220-223.	0.8	1
83	An estimate of shape distribution of small CdS particles with luminescence spectra. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2977-2981.	2.7	1
84	A photovoltaic response of a Schottky diode based on the conducting polymer PEDOT:PSS and inorganic semiconductors. EPJ Applied Physics, 2010, 51, 20301.	0.7	1
85	Electronic and optical features of N,Nâ€²-bis(4-aminophenyl)1,4-quinonediimine doped with silicotungsten polyacid: Experimental and numerical studies. Chemical Physics Letters, 2010, 497, 76-80.	2.6	1
86	Design, fabrication and characterization of a new wideband antenna based on a Polyaniline/Carbon coated Cobalt composite. , 2017, , .		1
87	From Drifting Polyaniline Sensor to Accurate Sensor Array for Breath Analysis. , 2018, , .		1
88	Broadband dielectric characterization of flexible substrates using organic conductive polymer microstrip lines. Microwave and Optical Technology Letters, 2020, 62, 688-695.	1.4	1
89	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
90	Mechanism of electrochemical reduction of unsaturated oligoesters on solid electrodes. Theoretical and Experimental Chemistry, 1983, 19, 209-212.	0.8	0

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91	Electrochemical reductive degradation of polyethylene terephthalate. Theoretical and Experimental Chemistry, 1985, 20, 548-553.	0.8	0
92	Electrochemical reductive breakdown of solid-phase chlorinated rubber in aprotic and aqueous media. Theoretical and Experimental Chemistry, 1989, 25, 653-658.	0.8	0
93	Electronic and optical features of silicon carbide nanoparticles and nanocomposites. , 2009, , .		0
94	Effect of water-soluble polyaniline on the reduction of oxygen and the reaction of its active forms with antioxidants. Theoretical and Experimental Chemistry, 2011, 47, 238-243.	0.8	0
95	P2.3.9 Polyaniline/poly(ethylene terephthalate) films as a sensing material in optical sensors for basic and acidic substances. , 2012, , .		0
96	Tetraalkylammonium hydroxide template effects in electrodeposited nanostructured ZnO layers. , 2012, , .		0
97	Effect of the Nature of the Template on the Structure and Properties of Electrodeposited Vertically Aligned Submicron ZnO Rods. Theoretical and Experimental Chemistry, 2013, 49, 255-260.	0.8	0
98	Efficient Bilayer Electrodes for Photosensitive Organic Heterostructure. Molecular Crystals and Liquid Crystals, 2014, 589, 162-170.	0.9	0
99	UV-light induced solid-phase photodegradation in PANI nanocomposites. , 2017, , .		0
100	The specificity of the core-shell polyvinylidene/polyaniline nanocomposite sensing applications. , 2017, , .		0