Pavel Janda

List of Publications by Year
in descending order

58 papers	2,046 citations	236925 25 h-index	233421 45 g-index
62 all docs	62 docs citations	62 times ranked	2351 citing authors

#	Article	IF	Citations
1	Synthesis, spectroscopy, electrochemistry, spectroelectrochemistry, Langmuir-Blodgett film formation, and molecular orbital calculations of planar binuclear phthalocyanines. Journal of the American Chemical Society, 1994, 116, 879-890.	13.7	198
2	Cathodic reduction of oxygen and hydrogen peroxide at cobalt and iron crowned phthalocyanines adsorbed on highly oriented pyrolytic graphite electrodes. Inorganic Chemistry, 1992, 31, 5172-5177.	4.0	116
3	Monomeric and Polymeric Tetra-aminophthalocyanatocobalt(II) Modified Electrodes: Electrocatalytic Reduction of Oxygen. Journal of Porphyrins and Phthalocyanines, 1997, 01, 3-16.	0.8	110
4	Raman Spectroscopy and in Situ Raman Spectroelectrochemistry of Bilayer¹²C/¹³C Graphene. Nano Letters, 2011, 11, 1957-1963.	9.1	104
5	Electrode with electropolymerized tetraaminophthalocyanatocobalt(II) for detection of sulfide ion. Analytical Chemistry, 1995, 67, 981-985.	6.5	99
6	Electrode with electrochemically deposited N,N',N'',N'''-tetramethyltetra-3,4-pyridinoporphyrazinocobalt(I) for detection of sulfide ion. Analytical Chemistry, 1994, 66, 384-390.	6.5	95
7	Charge transfer reductive doping of single crystal TiO2 anatase. Journal of Electroanalytical Chemistry, 2004, 566, 73-83.	3.8	90
8	Quinone-mediated glucose oxidase electrode with the enzyme immobilized in polypyrrole. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 300, 119-127.	0.1	89
9	Detection of Ascorbic Acid Using a Carbon Fiber Microelectrode Coated with Cobalt Tetramethylpyridoporphyrazine. Analytical Chemistry, 1996, 68, 960-965.	6.5	83
10	Electrochemistry and spectroelectrochemistry of 1,8-naphthalene- and 1,8-anthracene-linked cofacial binuclear metallophthalocyanines. New mixed-valence metallophthalocyanines. Inorganic Chemistry, 1990, 29, 3415-3425.	4.0	80
11	Work Function of TiO₂ (Anatase, Rutile, and Brookite) Single Crystals: Effects of the Environment. Journal of Physical Chemistry C, 2021, 125, 1902-1912.	3.1	77
12	Interaction of Porphyrins with a Dendrimer Template:Â Self-Aggregation Controlled by pH. Langmuir, 2005, 21, 9714-9720.	3.5	73
13	Nanostructuring of Highly Ordered C60 Films by Charge Transfer. Advanced Materials, 1998, 10, 1434-1438.	21.0	70
14	A planar binuclear phthalocyanine and its dicobalt derivatives. Journal of the Chemical Society Chemical Communications, 1987, , 699.	2.0	67
15	Multilayer Films from Templated TiO₂ and Structural Changes during their Thermal Treatment. Chemistry of Materials, 2008, 20, 2985-2993.	6.7	59
16	Novel highly active Pt/graphene catalyst for cathodes of Cu(II/I)-mediated dye-sensitized solar cells. Electrochimica Acta, 2017, 251, 167-175.	5.2	43
17	Tetraphenylporphyrin-cobalt(III) Bis(1,2-dicarbollide) Conjugates:Â From the Solution Characteristics to Inhibition of HIV Protease. Journal of Physical Chemistry B, 2007, 111, 4539-4546.	2.6	38
18	Crystallic silver amalgam â€“ a novel electrode material. Analyst, The, 2011, 136, 3656.	3.5	37

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19	Layered zinc hydroxide salts: Delamination, preferred orientation of hydroxide lamellae, and formation of ZnO nanodiscs. Journal of Colloid and Interface Science, 2011, 360, 532-539.	9.4	35
20	Boron-doped Diamond Electrodes: Electrochemical, Atomic Force Microscopy and Raman Study towards Corrosion-modifications at Nanoscale. Electrochimica Acta, 2015, 179, 626-636.	5.2	35
21	1,8-Naphthalene-Linked Cofacial Dimeric Phthalocyanines. Angewandte Chemie International Edition in English, 1987, 26, 1021-1023.	4.4	34
22	Nanobubble-assisted formation of carbon nanostructures on basal plane highly ordered pyrolytic graphite exposed to aqueous media. Nanotechnology, 2010, 21, 095707.	2.6	29
23	Few-Layer ZnO Nanosheets: Preparation, Properties, and Films with Exposed {001} Facets. Journal of Physical Chemistry C, 2011, 115, 24702-24706.	3.1	26
24	Bovine serum albumin film as a template for controlled nanopancake and nanobubble formation: In situ atomic force microscopy and nanolithography study. Colloids and Surfaces B: Biointerfaces, 2012, 94, 213-219.	5.0	26
25	Photoactive oriented films of layered double hydroxides. Physical Chemistry Chemical Physics, 2008, 10, 4429.	2.8	23
26	Nickel hydroxide ultrathin nanosheets as building blocks for electrochemically active layers. Journal of Materials Chemistry A, 2013, 1, 11429.	10.3	23
27	Nickel-cobalt hydroxide nanosheets: Synthesis, morphology and electrochemical properties. Journal of Colloid and Interface Science, 2017, 499, 138-144.	9.4	19
28	Electrochemical nanostructuring of fullerene filmsâ€"spectroscopic evidence for C60 polymer formation and hydrogenation. Physical Chemistry Chemical Physics, 2005, 7, 3179.	2.8	18
29	Photoacoustic spectroscopy with mica and graphene micro-mechanical levers for multicomponent analysis of acetic acid, acetone and methanol mixture. Microchemical Journal, 2019, 144, 203-208.	4.5	17
30	Porphyrin/calixarene self-assemblies in aqueous solution. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 198, 18-25.	3.9	16
31	Modification of glassy carbon electrodes by a new type of polymeric viologen. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1984, 180, 109-120.	0.1	13
32	First application of multilayer graphene cantilever for laser photoacoustic detection. Measurement: Journal of the International Measurement Confederation, 2017, 101, 9-14.	5.0	13
33	Rotating Cell for in Situ Raman Spectroelectrochemical Studies of Photosensitive Redox Systems. Analytical Chemistry, 2009, 81, 2017-2021.	6.5	12
34	A Study of the Modification of the Gold Electrode Surface with a Calix[4]arene Selfâ€Assembled Monolayer. Electroanalysis, 2010, 22, 2051-2057.	2.9	12
35	Dense TiO₂ films grown by solâ€"gel dip coating on glass, F-doped SnO₂, and silicon substrates. Journal of Materials Research, 2013, 28, 385-393.	2.6	12
36	Surface Rearrangement of Water-Immersed Hydrophobic Solids by Gaseous Nanobubbles. Langmuir, 2014, 30, 14522-14531.	3.5	11

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37	Chemical modification of diamond surface by a donorâ€“acceptor organic chromophore (P1): Optimization of surface chemistry and electronic properties of diamond. Applied Materials Today, 2018, 12, 153-162.	4.3	11
38	Nickel nanoparticle assembly on single-crystal support: formation, composition and stability. Nanotechnology, 2006, 17, 1492-1500.	2.6	10
39	Isolated Nanoribbons of Carbon Nanotubes and Peapods. ChemPhysChem, 2005, 6, 426-430.	2.1	9
40	Surface electrochemistry of N,N',Nâ€³,Nâ€´-tetramethyl-tetra-3,4-pyridinoporphyrazinocobalt(II). Journal of Porphyrins and Phthalocyanines, 2006, 10, 1238-1248.	0.8	8
41	Self-Assemblies of Cationic Porphyrins with Functionalized Water-Soluble Single-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2009, 9, 5795-5802.	0.9	8
42	Nanoshaving of bovine serum albumin films adsorbed on monocrystalline surfaces and interfaces. Collection of Czechoslovak Chemical Communications, 2011, 76, 1075-1087.	1.0	7
43	Quantitative Depth Profiling of K-Doped Fullerene Films Using XPS and SIMS. Mikrochimica Acta, 2003, 141, 79-85.	5.0	6
44	Spontaneous Adsorption of a Co-Phthalocyanine Ionic Derivative on HOPG. An In Situ EPR Study. Journal of Physical Chemistry C, 2014, 118, 4198-4206.	3.1	5
45	Single-Step Nanoporation of Water-Immersed Polystyrene Film by Gaseous Nanobubbles. Langmuir, 2016, 32, 11221-11229.	3.5	5
46	Effect of the vapor-deposited Au nanoparticles on the rate of the redox reaction at the highly oriented pyrolytic graphite electrode. Journal of Electroanalytical Chemistry, 2007, 605, 31-40.	3.8	4
47	Hydrogen evolution reaction enhanced by water-soluble metallopyridinoporphyrazine complex adsorbed on highly oriented pyrolytic graphite. International Journal of Hydrogen Energy, 2019, 44, 11431-11440.	7.1	4
48	Copper deposition on fullerene nanostructures. Surface Science, 2005, 597, 26-31.	1.9	3
49	Preparation of Au-Pt Nanostructures on Highly Oriented Pyrolytic Graphite Surfaces by Pulsed Laser Deposition and Their Characterization by XPS and AFM Methods. Collection of Czechoslovak Chemical Communications, 2008, 73, 1299-1313.	1.0	3
50	Electrochemically controlled winding and unwinding of substrate-supported carbon nanoscrolls. Physical Chemistry Chemical Physics, 2018, 20, 5900-5908.	2.8	3
51	Nanobubble-Assisted Nanopatterning Reveals the Existence of Liquid Quasi-Two-Dimensional Foams Pinned to a Water-Immersed Surface. Langmuir, 2020, 36, 7200-7209.	3.5	3
52	Versatile cell for in-situ spectroelectrochemical and ex-situ nanomorphological characterization of both water soluble and insoluble phthalocyanine compounds. Monatshefte FÃ¼r Chemie, 2016, 147, 1393-1400.	1.8	2
53	Interface of Two Immiscible Electrolytes as a Potentiometric Sensor for Flow Analysis. Analytical Letters, 2016, 49, 169-177.	1.8	2
54	Hydrogen sulfide detection by poly(methylene blue) modified highly oriented pyrolytic graphite electrode. Monatshefte FÃ¼r Chemie, 2017, 148, 1595-1597.	1.8	2

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55	Cobalt pyridinoporphyrazine film as a platinum group metal-free mediator in hydrogen electrochemistry. Monatshefte FÃ¼r Chemie, 2019, 150, 1643-1650.	1.8	1
56	Atomic layer deposited films of Al2O3 on fluorine-doped tin oxide electrodes: stability and barrier properties. Beilstein Journal of Nanotechnology, 2021, 12, 24-34.	2.8	1
57	Isolation of Carbon Nanostructures. AIP Conference Proceedings, 2005, , .	0.4	0
58	Time-resolved potentiometry on dual interface of two immiscible electrolyte solutions (ITIES): Step towards qualitative potentiometric analysis. Electrochimica Acta, 2015, 182, 1053-1059.	5.2	0