

Barbara PaÅ,ys

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Network Films Composed of Conducting Polymer-Linked and Polyoxometalate-Stabilized Platinum Nanoparticles. <i>Chemistry of Materials</i> , 2004, 16, 4128-4134.	3.2	148
2	Polyaniline nanotubes—“anion effect on conformation and oxidation state of polyaniline studied by Raman spectroscopy. <i>Synthetic Metals</i> , 2004, 142, 223-229.	2.1	123
3	Template synthesis of polyaniline and poly(2-methoxyaniline) nanotubes: comparison of the formation mechanisms. <i>Electrochemistry Communications</i> , 2003, 5, 403-407.	2.3	88
4	Asymmetry of Electron Transmission through Monolayers of Helical Polyaniline Adsorbed on Gold Surfaces. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18433-18438.	1.2	82
5	Modification of Pt nanoparticles with polyoxometalate monolayers: Competition between activation and blocking of reactive sites for the electrocatalytic oxygen reduction. <i>Electrochimica Acta</i> , 2007, 52, 5574-5581.	2.6	79
6	Microplastics on sandy beaches of the southern Baltic Sea. <i>Marine Pollution Bulletin</i> , 2020, 155, 111170.	2.3	78
7	Contribution of Intermolecular Interactions to Electron Transfer through Monolayers of Alkanethiols Containing Amide Groups. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5907-5914.	1.2	77
8	SERS of 1,8-diaminonaphthalene on gold, silver and copper electrodes Polymerisation and complexes formed with the electrode material. <i>Journal of Electroanalytical Chemistry</i> , 1997, 428, 19-24.	1.9	76
9	Polyoxometalates as inorganic templates for electrocatalytic network films of ultra-thin conducting polymers and platinum nanoparticles. <i>Bioelectrochemistry</i> , 2005, 66, 79-87.	2.4	67
10	Preparation and Characterization of Composites that Contain Small Carbon Nano“Onions and Conducting Polyaniline. <i>Chemistry - A European Journal</i> , 2012, 18, 2600-2608.	1.7	63
11	Sensitivity of poly 1,8-diaminonaphthalene to heavy metal ions “ electrochemical and vibrational spectra studies. <i>Journal of Electroanalytical Chemistry</i> , 1997, 433, 41-48.	1.9	54
12	Effective Charge Transport in Poly(3,4-ethylenedioxythiophene) Based Hybrid Films Containing Polyoxometalate Redox Centers. <i>Journal of the Electrochemical Society</i> , 2005, 152, E98.	1.3	53
13	Electrochemically reduced graphene oxide on gold nanoparticles modified with a polyoxomolybdate film. Highly sensitive non-enzymatic electrochemical detection of H ₂ O ₂ . <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 745-756.	4.0	52
14	Multiphase-Separated Polyurethanes Studied by Micro-Raman Spectroscopy. <i>Macromolecular Rapid Communications</i> , 2003, 24, 265-268.	2.0	51
15	Orientation of Laccase on Charged Surfaces. Mediatorless Oxygen Reduction on Amino- and Carboxyl-Ended Ethylphenyl Groups. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25911-25918.	1.5	49
16	Resonance Raman spectra of phthalocyanine monolayers on different supports. A normal mode analysis of zinc phthalocyanine by means of the MNDO method. <i>Journal of Raman Spectroscopy</i> , 1995, 26, 63-76.	1.2	48
17	Effect of anions on the electrosynthesis, electroactivity and molecular structure of poly(o-methoxyaniline). <i>Synthetic Metals</i> , 1998, 94, 265-272.	2.1	47
18	Electrosynthesis and spectroelectrochemical characterization of poly(3,4-dimethoxy-thiophene), poly(3,4-dipropoxythiophene) and poly(3,4-dioctyloxythiophene) films. <i>Electrochimica Acta</i> , 2003, 48, 3665-3676.	2.6	47

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19	Hydration of a Polysulfone Anion-Exchange Membrane Studied by Vibrational Spectroscopy. <i>Langmuir</i> , 2003, 19, 3282-3287.	1.6	44
20	Redox transformations of polyaniline nanotubes. <i>Electrochimica Acta</i> , 2006, 51, 4115-4124.	2.6	38
21	Influence of anions on formation and electroactivity of poly-2,5-dimethoxyaniline. <i>Synthetic Metals</i> , 2000, 108, 111-119.	2.1	35
22	Graphene and Graphene Oxide Applications for SERS Sensing and Imaging. <i>Current Medicinal Chemistry</i> , 2019, 26, 6878-6895.	1.2	35
23	Ammonia modified graphene oxide " Gold nanoparticles composite as a substrate for surface enhanced Raman spectroscopy. <i>Applied Surface Science</i> , 2021, 554, 149060.	3.1	33
24	Poly-o-phenylenediamine as redox mediator for laccase. <i>Electrochimica Acta</i> , 2007, 52, 7075-7082.	2.6	32
25	The Electrochemical Properties of Nanocomposite Films Obtained by Chemical In Situ Polymerization of Aniline and Carbon Nanostructures. <i>ChemPhysChem</i> , 2013, 14, 116-124.	1.0	32
26	Oxygen reduction in acid media: influence of the activity of CoNPc(1,2) bilayer deposits in relation to their attachment to the carbon black support and role of surface groups as a function of heat treatment. <i>Journal of Electroanalytical Chemistry</i> , 1994, 365, 239-246.	1.9	30
27	Supramolecular polyaniline hydrogel as a support for urease. <i>Electrochimica Acta</i> , 2014, 126, 90-97.	2.6	29
28	Electrode modified with ionic liquid covalently bonded to silicate matrix for accumulation of electroactive anions. <i>Electrochemistry Communications</i> , 2007, 9, 2580-2584.	2.3	26
29	Raman spectroscopic evidence of the bronze-like recharging behavior for conducting films deposited from isopolytungstates. <i>Electrochimica Acta</i> , 2005, 50, 1693-1702.	2.6	23
30	Gold Nanoparticles Tethered to Gold Surfaces Using Nitroxyl Radicals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7347-7354.	1.5	23
31	Intermolecular interactions in electron transfer through stretched helical peptides. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10332.	1.3	23
32	Synthesis and characterization of porous carbon"MoS ₂ nanohybrid materials: electrocatalytic performance towards selected biomolecules. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1448-1457.	2.9	23
33	Preparation and spectroelectrochemical characterization of composite films of poly(3,4-ethylenedioxythiophene) with 4-(pyrrole-1-yl) benzoic acid. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1023-1030.	1.2	22
34	Fabrication of polyoxometallate-modified gold nanoparticles and their utilization as supports for dispersed platinum in electrocatalysis. <i>Electrochimica Acta</i> , 2011, 56, 10744-10750.	2.6	22
35	Electrodeposited graphene nano-stacks for biosensor applications. Surface groups as redox mediators for laccase. <i>Electrochimica Acta</i> , 2013, 98, 75-81.	2.6	22
36	Enantioselective recognition of sutezolid by cyclodextrin modified non-aqueous capillary electrophoresis and explanation of complex formation by means of infrared spectroscopy, NMR and molecular modelling. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 169, 49-59.	1.4	22

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37	Characterisation of gold electrodes modified with methyltrimethoxysilane and (3-mercaptopropyl) trimethoxysilane sol-gel processed films. <i>Journal of Electroanalytical Chemistry</i> , 2005, 578, 239-245.	1.9	21
38	Controlled fabrication of multilayered 4-(pyrrole-1-yl) benzoate supported poly(3,4-ethylenedioxythiophene) linked hybrid films of Prussian blue type nickel hexacyanoferrate. <i>Electrochimica Acta</i> , 2007, 53, 1235-1243.	2.6	18
39	Poly-o-aminophenol as a laccase mediator and influence of the enzyme on the polymer electrodeposition. <i>Bioelectrochemistry</i> , 2010, 80, 43-48.	2.4	18
40	Degradability of composites of low density polyethylene/polypropylene blends filled with rape straw. <i>Polymer Degradation and Stability</i> , 2010, 95, 536-542.	2.7	18
41	Spectroscopic and Electrochemical Studies of Bilayer Lipid Membranes Tethered to the Surface of Gold. <i>Journal of the Electrochemical Society</i> , 2002, 149, E189.	1.3	17
42	Electrochemically Reduced Graphene Oxide on Electrochemically Roughened Gold as a Support for Horseradish Peroxidase. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29731-29738.	1.5	17
43	Raman spectra of zinc phthalocyanine monolayers adsorbed on glassy carbon and gold electrodes by application of a confocal Raman microspectrometer. <i>Journal of Electroanalytical Chemistry</i> , 1992, 326, 105-112.	1.9	16
44	Catalytic properties of 4-hydroxythiophenol protected gold nanoclusters supported on gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 564, 93-98.	1.9	16
45	In situ deposition of poly(1,8-diaminonaphthalene): from thin films to nanometer-sized structures. <i>Electrochimica Acta</i> , 2005, 50, 2363-2370.	2.6	16
46	Modified Filamentous Bacteriophage as a Scaffold for Carbon Nanofiber. <i>Bioconjugate Chemistry</i> , 2016, 27, 2900-2910.	1.8	16
47	Layers of Polyaniline Nanotubes Deposited by Langmuir-Blodgett Method. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10424-10429.	1.5	14
48	An in-situ Raman study of the effect of the support for adsorbed iridium-chelates in catalysing oxygen reduction. <i>Journal of Electroanalytical Chemistry</i> , 1996, 406, 195-202.	1.9	13
49	One-step electrodeposition of carbon-silicate sponge assisted by a three-phase junction for efficient bioelectrocatalysis. <i>Electrochemistry Communications</i> , 2011, 13, 566-569.	2.3	13
50	Electrosynthesis of thin sol-gel films at a three-phase junction. <i>Electrochimica Acta</i> , 2011, 56, 3311-3316.	2.6	12
51	Application of Polarization Modulated Infrared Reflection Absorption Spectroscopy for electrocatalytic activity studies of laccase adsorbed on modified gold electrodes. <i>Electrochimica Acta</i> , 2013, 110, 105-111.	2.6	12
52	Sulphate sensing in self-assembled monolayers by surface infrared and Raman spectroscopy techniques. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 172-181.	4.0	12
53	Electrochemically Reduced Graphene Oxide Noble Metal Nanoparticles Nanohybrids for Sensitive Enzyme-Free Detection of Hydrogen Peroxide. <i>Electrocatalysis</i> , 2020, 11, 215-225.	1.5	12
54	Characterisation of biphasic electrodes based on the liquid N,N-didodecyl-N,N'-diethylphenylenediamine redox system immobilised on porous hydrophobic silicates and immersed in aqueous media. <i>Journal of Electroanalytical Chemistry</i> , 2005, 582, 202-208.	1.9	11

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55	Silver nanoparticles stabilized by polyoxotungstates. Influence of the silver PO_4 Polyoxotungstate molar ratio on UV/Vis spectra and SERS characteristics. <i>Journal of Electroanalytical Chemistry</i> , 2019, 854, 113537.	1.9	11
56	Silver-Graphene Oxide Nanohybrids for Highly Sensitive, Stable SERS Platforms. <i>Frontiers in Chemistry</i> , 2021, 9, 665205.	1.8	11
57	Adsorption of asparagine on the gold electrode and air/solution interface. <i>Electrochimica Acta</i> , 2004, 49, 4109-4118.	2.6	10
58	Covalent binding of sensor phases - a recipe for stable potentials of solid-state ion-selective sensors. <i>Analytica Chimica Acta</i> , 2008, 625, 137-144.	2.6	10
59	Enhancement of Direct Electrocatalytic Activity of Horseradish Peroxidase on Polyaniline Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12514-12522.	1.5	10
60	Comprehensive study of the electrochemical growth and physicochemical properties of polycatecholamines and polycatechol. <i>Electrochimica Acta</i> , 2021, 386, 138515.	2.6	10
61	Effect of axial ligands on the spectroelectrochemical properties of zinc phthalocyanine films. In situ Raman and electroreflection spectra. <i>Journal of Electroanalytical Chemistry</i> , 1994, 379, 89-101.	1.9	9
62	Preparation of ultrathin films of polyaniline and its derivatives by electrochemical deposition on thiol modified gold. <i>Journal of Electroanalytical Chemistry</i> , 2002, 533, 145-152.	1.9	9
63	Effect of the polymerization bath on structure and electrochemical properties of polyaniline-poly(styrene sulfonate) hydrogels. <i>Journal of Electroanalytical Chemistry</i> , 2017, 784, 115-123.	1.9	9
64	Noble Metal Nanoparticles in Pectin Matrix. Preparation, Film Formation, Property Analysis, and Application in Electrocatalysis. <i>ACS Omega</i> , 2020, 5, 23909-23918.	1.6	9
65	Influence of buffer solution on structure and electrochemical properties of poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) hydrogels. <i>Synthetic Metals</i> , 2020, 263, 116363.	2.1	9
66	Decoration of MoS ₂ Nanopetal Stacks with Positively Charged Gold Nanoparticles for Synergistic Electrocatalytic Oxidation of Biologically Relevant Compounds. <i>Electrochimica Acta</i> , 2015, 182, 659-667.	2.6	8
67	Dependence of Interfacial Film Organization on Lipid Molecular Structure. <i>Langmuir</i> , 2014, 30, 11329-11339.	1.6	6
68	Electroassisted click chemistry immobilisation of gold nanoparticles on a solid substrate. <i>Electrochemistry Communications</i> , 2015, 53, 20-23.	2.3	6
69	pH-tunable equilibria in azocrown ethers with histidine moieties. <i>Bioelectrochemistry</i> , 2007, 71, 99-106.	2.4	5
70	Thioacetate-Functionalized Fullerene: Redox Properties and Self-Assembly on the Au(111) Surface. <i>Journal of the Electrochemical Society</i> , 2013, 160, H28-H32.	1.3	5
71	Stabilization and activation of Pd nanoparticles for efficient CO ₂ -reduction: Importance of their generation within supramolecular network of tridentate Schiff-base ligands with N,N coordination sites. <i>Electrochimica Acta</i> , 2021, 388, 138550.	2.6	5
72	Interactions of dithiolated tetraazamacrocyclic copper(ii) and nickel(ii) complexes self-assembled on gold electrodes with π -electron deficient molecules in solution. <i>Dalton Transactions</i> , 2010, 39, 730-735.	1.6	4

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73	Influence of amine and thiol modifications at the 3' ends of single stranded DNA molecules on their adsorption on gold surface and the efficiency of their hybridization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 203, 31-39.	2.0	4
74	Anchoring Gold Nanoparticles to Gold Surfaces through Nitroxyl Radicals. <i>ECS Transactions</i> , 2011, 35, 39-45.	0.3	3
75	Spectroscopic identification of intermediates and final products of the chiral pool synthesis of sutezolid. <i>Journal of Molecular Structure</i> , 2020, 1217, 128396.	1.8	2
76	Factors Influencing the Electrocatalytic Properties of Graphene Oxide " Gold Nanoparticles Hybrid System. <i>ChemElectroChem</i> , 2021, 8, 3080-3088.	1.7	2
77	Diazonium-Based Covalent Molecular Wiring of Single-Layer Graphene Leads to Enhanced Unidirectional Photocurrent Generation through the p-doping Effect. <i>Chemistry of Materials</i> , 2022, 34, 3744-3758.	3.2	2
78	(Invited) Enhancement of Photoelectrochemical Water Splitting and Solar Energy Induced Electroreduction of Carbon Dioxide through Utilization of Plasmonic and Electrocatalytic Metal Nanoparticles. <i>ECS Transactions</i> , 2014, 58, 9-20.	0.3	0