

# Barbara Palys

## List of Publications by Citations

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79  
ext. papers

2,052  
ext. citations

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4.7  
L-index

#	Paper	IF	Citations
77	Network Films Composed of Conducting Polymer-Linked and Polyoxometalate-Stabilized Platinum Nanoparticles. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 4128-4134	9.6	137
76	Polyaniline nanotubes—ion effect on conformation and oxidation state of polyaniline studied by Raman spectroscopy. <i>Synthetic Metals</i> , <b>2004</b> , 142, 223-229	3.6	102
75	Template synthesis of polyaniline and poly(2-methoxyaniline) nanotubes: comparison of the formation mechanisms. <i>Electrochemistry Communications</i> , <b>2003</b> , 5, 403-407	5.1	81
74	Modification of Pt nanoparticles with polyoxometallate monolayers: Competition between activation and blocking of reactive sites for the electrocatalytic oxygen reduction. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 5574-5581	6.7	76
73	Asymmetry of electron transmission through monolayers of helical polyalanine adsorbed on gold surfaces. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 18433-8	3.4	75
72	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> , <b>1997</b> , 428, 19-24	4.1	74
71	Contribution of Intermolecular Interactions to Electron Transfer through Monolayers of Alkanethiols Containing Amide Groups. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 5907-5914	3.4	72
70	Polyoxometallates as inorganic templates for electrocatalytic network films of ultra-thin conducting polymers and platinum nanoparticles. <i>Bioelectrochemistry</i> , <b>2005</b> , 66, 79-87	5.6	63
69	Preparation and characterization of composites that contain small carbon nano-onions and conducting polyaniline. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2600-8	4.8	58
68	Effective Charge Transport in Poly(3,4-ethylenedioxythiophene) Based Hybrid Films Containing Polyoxometallate Redox Centers. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, E98	3.9	49
67	Sensitivity of poly 1,8-diaminonaphthalene to heavy metal ions [electrochemical and vibrational spectra studies. <i>Journal of Electroanalytical Chemistry</i> , <b>1997</b> , 433, 41-48	4.1	48
66	Orientation of Laccase on Charged Surfaces. Mediatorless Oxygen Reduction on Amino- and Carboxyl-Ended Ethylphenyl Groups. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25911-25918	3.8	46
65	Multiphase-Separated Polyurethanes Studied by Micro-Raman Spectroscopy. <i>Macromolecular Rapid Communications</i> , <b>2003</b> , 24, 265-268	4.8	45
64	Effect of anions on the electrosynthesis, electroactivity and molecular structure of poly(o-methoxyaniline). <i>Synthetic Metals</i> , <b>1998</b> , 94, 265-272	3.6	44
63	Electrosynthesis and spectroelectrochemical characterization of poly(3,4-dimethoxy-thiophene), poly(3,4-dipropoxythiophene) and poly(3,4-dioctyloxythiophene) films. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 3665-3676	6.7	44
62	Electrochemically reduced graphene oxide on gold nanoparticles modified with a polyoxomolybdate film. Highly sensitive non-enzymatic electrochemical detection of H <sub>2</sub> O <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 258, 745-756	8.5	43
61	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> , <b>1995</b> , 26, 63-76	2.3	42

60	Hydration of a Polysulfone Anion-Exchange Membrane Studied by Vibrational Spectroscopy. <i>Langmuir</i> , <b>2003</b> , 19, 3282-3287	4	38
59	Redox transformations of polyaniline nanotubes. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 4115-4124	6.7	33
58	Microplastics on sandy beaches of the southern Baltic Sea. <i>Marine Pollution Bulletin</i> , <b>2020</b> , 155, 111170	6.7	31
57	Influence of anions on formation and electroactivity of poly-2,5-dimethoxyaniline. <i>Synthetic Metals</i> , <b>2000</b> , 108, 111-119	3.6	30
56	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> , <b>1994</b> , 365, 239-246	4.1	27
55	Poly-o-phenylenediamine as redox mediator for laccase. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 7075-7082	6.7	26
54	The electrochemical properties of nanocomposite films obtained by chemical in situ polymerization of aniline and carbon nanostructures. <i>ChemPhysChem</i> , <b>2013</b> , 14, 116-24	3.2	25
53	Electrode modified with ionic liquid covalently bonded to silicate matrix for accumulation of electroactive anions. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 2580-2584	5.1	24
52	Supramolecular polyaniline hydrogel as a support for urease. <i>Electrochimica Acta</i> , <b>2014</b> , 126, 90-97	6.7	22
51	Intermolecular interactions in electron transfer through stretched helical peptides. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 10332-44	3.6	22
50	Electrodeposited graphene nano-stacks for biosensor applications. Surface groups as redox mediators for laccase. <i>Electrochimica Acta</i> , <b>2013</b> , 98, 75-81	6.7	21
49	Synthesis and characterization of porous carbon-MoS nanohybrid materials: electrocatalytic performance towards selected biomolecules. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 1448-1457	7.3	20
48	Fabrication of polyoxometallate-modified gold nanoparticles and their utilization as supports for dispersed platinum in electrocatalysis. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 10744-10750	6.7	20
47	Characterisation of gold electrodes modified with methyltrimethoxysilane and (3-mercaptopropyl) trimethoxysilane sol-gel processed films. <i>Journal of Electroanalytical Chemistry</i> , <b>2005</b> , 578, 239-245	4.1	20
46	Gold Nanoparticles Tethered to Gold Surfaces Using Nitroxyl Radicals. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 7347-7354	3.8	19
45	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> , <b>2007</b> , 11, 1023-1030	2.6	18
44	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> , <b>2007</b> , 53, 1235-1243	6.7	17
43	Spectroscopic and Electrochemical Studies of Bilayer Lipid Membranes Tethered to the Surface of Gold. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, E189	3.9	17

42	Graphene and Graphene Oxide Applications for SERS Sensing and Imaging. <i>Current Medicinal Chemistry</i> , <b>2019</b> , 26, 6878-6895	4.3	17
41	Raman spectroscopic evidence of the bronze-like recharging behavior for conducting films deposited from isopolytungstates. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 1693-1702	6.7	16
40	In situ deposition of poly(1,8-diaminonaphthalene): from thin films to nanometer-sized structures. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 2363-2370	6.7	16
39	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> , <b>1992</b> , 326, 105-112	4.1	16
38	Electrochemically Reduced Graphene Oxide on Electrochemically Roughened Gold as a Support for Horseradish Peroxidase. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 29731-29738	3.8	15
37	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> , <b>2019</b> , 169, 49-59	3.5	14
36	Poly-o-aminophenol as a laccase mediator and influence of the enzyme on the polymer electrodeposition. <i>Bioelectrochemistry</i> , <b>2010</b> , 80, 43-8	5.6	14
35	Degradability of composites of low density polyethylene/polypropylene blends filled with rape straw. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 536-542	4.7	14
34	Layers of Polyaniline Nanotubes Deposited by Langmuir-Blodgett Method. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10424-10429	3.8	13
33	Catalytic properties of 4-hydroxythiophenol protected gold nanoclusters supported on gold electrodes. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 564, 93-98	4.1	13
32	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> , <b>1996</b> , 406, 195-202	4.1	13
31	One-step electrodeposition of carbonilicite sponge assisted by a three-phase junction for efficient bioelectrocatalysis. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 566-569	5.1	12
30	Electrosynthesis of thin sol-gel films at a three-phase junction. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 3311-3316	6.7	12
29	Modified Filamentous Bacteriophage as a Scaffold for Carbon Nanofiber. <i>Bioconjugate Chemistry</i> , <b>2016</b> , 27, 2900-2910	6.3	11
28	Application of Polarization Modulated Infrared Reflection Absorption Spectroscopy for electrocatalytic activity studies of laccase adsorbed on modified gold electrodes. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 105-111	6.7	11
27	Covalent binding of sensor phases--a recipe for stable potentials of solid-state ion-selective sensors. <i>Analytica Chimica Acta</i> , <b>2008</b> , 625, 137-44	6.6	10
26	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> , <b>2005</b> , 582, 202-208	4.1	10
25	Enhancement of Direct Electrocatalytic Activity of Horseradish Peroxidase on Polyaniline Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 12514-12522	3.8	9

24	Adsorption of asparagine on the gold electrode and air/solution interface. <i>Electrochimica Acta</i> , <b>2004</b> , 49, 4109-4118	6.7	9
23	Effect of axial ligands on the spectroelectrochemical properties of zinc phthalocyanine films. In situ Raman and electroreflection spectra. <i>Journal of Electroanalytical Chemistry</i> , <b>1994</b> , 379, 89-101	4.1	9
22	Effect of the polymerization bath on structure and electrochemical properties of polyaniline-poly(styrene sulfonate) hydrogels. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 784, 115-123	4.1	8
21	Preparation of ultrathin films of polyaniline and its derivatives by electrochemical deposition on thiol modified gold. <i>Journal of Electroanalytical Chemistry</i> , <b>2002</b> , 533, 145-152	4.1	8
20	Sulphate sensing in self-assembled monolayers by surface infrared and Raman spectroscopy techniques. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 283, 172-181	8.5	7
19	Decoration of MoS <sub>2</sub> Nanopetal Stacks with Positively Charged Gold Nanoparticles for Synergistic Electrocatalytic Oxidation of Biologically Relevant Compounds. <i>Electrochimica Acta</i> , <b>2015</b> , 182, 659-667	6.7	6
18	Electrochemically Reduced Graphene Oxide [Noble Metal Nanoparticles Nanohybrids for Sensitive Enzyme-Free Detection of Hydrogen Peroxide. <i>Electrocatalysis</i> , <b>2020</b> , 11, 215-225	2.7	6
17	Dependence of interfacial film organization on lipid molecular structure. <i>Langmuir</i> , <b>2014</b> , 30, 11329-39	4	5
16	Silver nanoparticles stabilized by polyoxotungstates. Influence of the silver [Polyoxotungstate molar ratio on UV/Vis spectra and SERS characteristics. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 854, 113537	4.1	4
15	Electroassisted click chemistry immobilisation of gold nanoparticles on a solid substrate. <i>Electrochemistry Communications</i> , <b>2015</b> , 53, 20-23	5.1	4
14	Thioacetate-Functionalized Fullerene: Redox Properties and Self-Assembly on the Au(111) Surface. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, H28-H32	3.9	4
13	pH-tunable equilibria in azocrown ethers with histidine moieties. <i>Bioelectrochemistry</i> , <b>2007</b> , 71, 99-106	5.6	4
12	Noble Metal Nanoparticles in Pectin Matrix. Preparation, Film Formation, Property Analysis, and Application in Electrocatalysis. <i>ACS Omega</i> , <b>2020</b> , 5, 23909-23918	3.9	4
11	Ammonia modified graphene oxide [Gold nanoparticles composite as a substrate for surface enhanced Raman spectroscopy. <i>Applied Surface Science</i> , <b>2021</b> , 554, 149060	6.7	4
10	Interactions of dithiolated tetraazamacrocyclic copper(II) and nickel(II) complexes self-assembled on gold electrodes with pi-electron deficient molecules in solution. <i>Dalton Transactions</i> , <b>2010</b> , 39, 730-5	4.3	3
9	Silver-Graphene Oxide Nanohybrids for Highly Sensitive, Stable SERS Platforms. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 665205	5	3
8	Influence of buffer solution on structure and electrochemical properties of poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) hydrogels. <i>Synthetic Metals</i> , <b>2020</b> , 263, 116363	3.6	3
7	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> , <b>2018</b> , 203, 31-39	4.4	3

6	Spectroscopic identification of intermediates and final products of the chiral pool synthesis of sutezolid. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1217, 128396	3.4	2
5	Factors Influencing the Electrocatalytic Properties of Graphene Oxide [Gold Nanoparticles Hybrid System. <i>ChemElectroChem</i> , <b>2021</b> , 8, 3080-3088	4.3	1
4	Comprehensive study of the electrochemical growth and physicochemical properties of polycatecholamines and polycatechol. <i>Electrochimica Acta</i> , <b>2021</b> , 386, 138515	6.7	1
3	Stabilization and activation of Pd nanoparticles for efficient CO <sub>2</sub> -reduction: Importance of their generation within supramolecular network of tridentate Schiff-base ligands with N,N coordination sites. <i>Electrochimica Acta</i> , <b>2021</b> , 388, 138550	6.7	0
2	Reduced Graphene Oxide for Biosensing and Electrocatalytic Applications <b>2019</b> , 143-179		
1	(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> , <b>2014</b> , 58, 9-20	1	