

# Maria Hepel

## List of Publications by Year in descending order

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100  
papers

3,660  
citations

109321

35  
h-index

138484

58  
g-index

102  
all docs

102  
docs citations

102  
times ranked

3942  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Electrocatalytic Oxidation of Methanol at Finely Dispersed Platinum Nanoparticles in Polypyrrole Films. <i>Journal of the Electrochemical Society</i> , 1998, 145, 124-134.	2.9	223
2	â€œMolecular Beaconâ€•Based Fluorescent Assay for Selective Detection of Glutathione and Cysteine. <i>Analytical Chemistry</i> , 2011, 83, 813-819.	6.5	155
3	Nanostructured SERS-electrochemical biosensors for testing of anticancer drug interactions with DNA. <i>Biosensors and Bioelectronics</i> , 2016, 80, 257-264.	10.1	151
4	Bicomponent $\text{WO}_3/\text{TiO}_2$ Films as Photoelectrodes. <i>Journal of the Electrochemical Society</i> , 1999, 146, 243-249.	2.9	146
5	Photoelectrochemical mineralization of textile diazo dye pollutants using nanocrystalline $\text{WO}_3$ electrodes. <i>Electrochimica Acta</i> , 2001, 47, 729-740.	5.2	135
6	Photoelectrochemical degradation of naphthol blue black diazo dye on $\text{WO}_3$ film electrode. <i>Electrochimica Acta</i> , 2001, 46, 2913-2922.	5.2	115
7	Effect of the Composition of Polypyrrole Substrate on the Electrodeposition of Copper and Nickel. <i>Journal of the Electrochemical Society</i> , 1996, 143, 498-505.	2.9	96
8	Novel dynamic effects in electrocatalysis of methanol oxidation on supported nanoporous $\text{TiO}_2$ bimetallic nanocatalysts. <i>Electrochimica Acta</i> , 2007, 52, 5529-5547.	5.2	96
9	Nanoporous $\text{TiO}_2$ -supported bimetallic catalysts for methanol oxidation in acidic media. <i>Electrochemistry Communications</i> , 2006, 8, 1439-1444.	4.7	94
10	Ligand exchange effects in gold nanoparticle assembly induced by oxidative stress biomarkers: Homocysteine and cysteine. <i>Biophysical Chemistry</i> , 2010, 146, 98-107.	2.8	94
11	X-ray Photoelectron Spectroscopic Study of the Activation of Molecularly-Linked Gold Nanoparticle Catalysts. <i>Langmuir</i> , 2003, 19, 125-131.	3.5	93
12	Surface Enhanced Raman Scattering Detection of Cancer Biomarkers with Bifunctional Nanocomposite Probes. <i>Analytical Chemistry</i> , 2015, 87, 10698-10702.	6.5	90
13	Photoelectrocatalytic degradation of diazo dyes on nanostructured $\text{WO}_3$ electrodes. <i>Electrochimica Acta</i> , 2005, 50, 5278-5291.	5.2	88
14	Study of the Initial Stages of Anodic Oxidation of Polycrystalline Silver in $\text{KOH}$ Solutions. <i>Journal of the Electrochemical Society</i> , 1984, 131, 1288-1294.	2.9	84
15	Development of piezoelectric immunosensors for competitive and direct determination of atrazine. <i>Sensors and Actuators B: Chemical</i> , 2003, 91, 333-341.	7.8	83
16	Double-shell gold nanoparticle-based DNA-carriers with poly-l-lysine binding surface. <i>Biomaterials</i> , 2011, 32, 3312-3321.	11.4	83
17	Mercury/Homocysteine Ligation-Induced ON/OFF-Switching of a Tâ€“T Mismatch-Based Oligonucleotide Molecular Beacon. <i>Analytical Chemistry</i> , 2012, 84, 4970-4978.	6.5	83
18	Resonance elastic light scattering (RELS) spectroscopy of fast non-Langmuirian ligand-exchange in glutathione-induced gold nanoparticle assembly. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 168-177.	9.4	82

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19	Decrease of Recombination Losses in Bicomponent $\text{WO}_3/\text{TiO}_2$ Films Photosensitized with Cresyl Violet and Thionine. <i>Journal of the Electrochemical Society</i> , 1998, 145, 3981-3985.	2.9	81
20	Investigation of highly sensitive piezoelectric immunosensors for 2,4-dichlorophenoxyacetic acid. <i>Biosensors and Bioelectronics</i> , 2001, 16, 253-260.	10.1	70
21	Application of the Electrochemical Quartz Crystal Microbalance for Electrochemically Controlled Binding and Release of Chlorpromazine from Conductive Polymer Matrix. <i>Microchemical Journal</i> , 1997, 56, 54-64.	4.5	65
22	Composite polypyrrole films switchable between the anion- and cation-exchanger states. <i>Electrochimica Acta</i> , 1996, 41, 63-76.	5.2	64
23	Rapid functionalization of metal nanoparticles by moderator-tunable ligand-exchange process for biosensor designs. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 373-380.	7.8	59
24	Multimodal coupling of optical transitions and plasmonic oscillations in rhodamine B modified gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1131-1139.	2.8	52
25	Effect of buried potential barrier in label-less electrochemical immunodetection of glutathione and glutathione-capped gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2011, 26, 3524-3530.	10.1	51
26	Studies of copper corrosion inhibition using electrochemical quartz crystal nanobalance and quartz crystal immittance techniques. <i>Electrochimica Acta</i> , 2001, 46, 3801-3815.	5.2	50
27	Nanogravimetric and voltammetric DNA-hybridization biosensors for studies of DNA damage by common toxicants and pollutants. <i>Biophysical Chemistry</i> , 2010, 146, 42-53.	2.8	50
28	Ion-gating phenomena of self-assembling glutathione films on gold piezoelectrodes. <i>Journal of Electroanalytical Chemistry</i> , 2003, 552, 291-305.	3.8	47
29	Magnetic Nanoparticles for Nanomedicine. <i>Magnetochemistry</i> , 2020, 6, 3.	2.4	47
30	An EQCN assessment of electrocatalytic oxidation of methanol at nanostructured Au-Pt alloy nanoparticles. <i>Electrochemistry Communications</i> , 2001, 3, 172-176.	4.7	46
31	Inhibiting properties of benzimidazole films for Cu(II)/Cu(I) reduction in chloride media studied by RDE and EQCN techniques. <i>Journal of Electroanalytical Chemistry</i> , 2008, 613, 35-50.	3.8	44
32	In situ underpotential deposition study of lead on silver using the electrochemical quartz crystal microbalance. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 266, 409-421.	0.1	43
33	Piezoelectric immunosensors for polychlorinated biphenyls operating in aqueous and organic phases. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 900-910.	7.8	43
34	Intervention of glutathione in pre-mutagenic catechol-mediated DNA damage in the presence of copper(II) ions. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 735, 1-11.	1.0	42
35	Transient conformation changes of albumin adsorbed on gold piezoelectrodes. <i>Electrochimica Acta</i> , 2005, 50, 4873-4887.	5.2	38
36	Electrochromic $\text{WO}_3 \cdot x\text{H}_2\text{O}$ films with reduced lattice deformation stress and fast response time. <i>Electrochimica Acta</i> , 2007, 52, 3541-3549.	5.2	35

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37	Study of leuco-methylene blue film growth and its reoxidation on sulphur-modified Au-EQCN electrode. <i>Electrochimica Acta</i> , 2000, 45, 3785-3799.	5.2	33
38	Use of Electrochemical Quartz Crystal Microbalance Technique to Track Electrochemically Assisted Removal of Heavy Metals from Aqueous Solutions by Cation-Exchange Composite Polypyrrole-Modified Electrodes. <i>Microchemical Journal</i> , 1997, 56, 79-92.	4.5	29
39	Comparative kinetic model of fluorescence enhancement in selective binding of monochlorobimane to glutathione. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 225, 72-80.	3.9	28
40	Surface-enhanced Raman scattering investigation of targeted delivery and controlled release of gemcitabine. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 7763-7776.	6.7	28
41	Tracking anion expulsion during underpotential deposition of lead at silver using the quartz microbalance. <i>Electrochimica Acta</i> , 1989, 34, 1499-1504.	5.2	27
42	Plasmonic nanocarrier grid-enhanced Raman sensor for studies of anticancer drug delivery. <i>Biosensors and Bioelectronics</i> , 2017, 91, 780-787.	10.1	27
43	Ion channeling phenomena and TI-upd induced film dynamics in model biomembranes studied with EQCN and QCI techniques. <i>Journal of Electroanalytical Chemistry</i> , 2001, 509, 90-106.	3.8	25
44	Impedance Relaxation Spectrum Analysis of Oxidized Silver Electrodes. <i>Journal of the Electrochemical Society</i> , 1985, 132, 32-38.	2.9	24
45	Controlled incorporation of heavy metals from aqueous solutions and their electrorelease using composite polypyrrole films. <i>Electroanalysis</i> , 1996, 8, 996-1005.	2.9	24
46	Expulsion of borate ions from the silver/solution interfacial region during underpotential deposition discharge of lead(II) in borate buffers. <i>Langmuir</i> , 1990, 6, 1063-1067.	3.5	23
47	Effect of pH on Ion Dynamics in Composite PPy/Heparin Films. <i>Microchemical Journal</i> , 1997, 55, 179-191.	4.5	23
48	Electrochemical quartz crystal microbalance monitoring of cadmium sulfide generation in polypyrrole and polypyrrole-poly(styrenesulfonate) thin films. <i>Chemistry of Materials</i> , 1992, 4, 209-216.	6.7	22
49	Nanogravimetric study of templated copper deposition in ion-channels of self-assembled glutathione films on gold piezoelectrodes. <i>Electrochimica Acta</i> , 2004, 49, 3827-3840.	5.2	22
50	Interfacial Mass Flux at 11-Mercaptoundecanoic Acid Linked Nanoparticle Assembly on Electrodes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9313-9321.	2.6	21
51	Thermodynamic and Photoelectrochemical Behavior of the $\text{TiO}_2$ Electrode in Fluoride-Containing Solutions. <i>Journal of the Electrochemical Society</i> , 1982, 129, 2132-2141.	2.9	19
52	Electrochromic $\text{WO}_3$ Films: Nanotechnology Experiments in Instrumental Analysis and Physical Chemistry Laboratories. <i>Journal of Chemical Education</i> , 2008, 85, 125.	2.3	19
53	Effect of Albumin on Underpotential Lead Deposition and Stripping on Ag-RDE. <i>Electroanalysis</i> , 2005, 17, 1401-1412.	2.9	16
54	Advances in Design Strategies of Multiplex Electrochemical Aptasensors. <i>Sensors</i> , 2022, 22, 161.	3.8	16

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55	Nanocrystalline structure and nanopore formation in modified thermal TiO <sub>2</sub> films. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2693-2702.	7.1	15
56	Advances in micro-supercapacitors (MSCs) with high energy density and fast charge/discharge capabilities for flexible bioelectronic devices—A review. <i>Electrochemical Science Advances</i> , 2023, 3, .	2.8	15
57	Electrorelease of Drugs from Composite Polymer Films. <i>ACS Symposium Series</i> , 1994, , 79-97.	0.5	14
58	Interactions of adsorbed albumin with underpotentially deposited copper on gold piezoelectrodes. <i>Bioelectrochemistry</i> , 2007, 70, 155-164.	4.6	14
59	Non-stoichiometric copper sulphide membrane electrode. <i>Analyst, The</i> , 1977, 102, 132.	3.5	13
60	Kinetics of CuEtX film formation on copper piezoelectrodes. <i>Journal of Electroanalytical Chemistry</i> , 2002, 538-539, 121-132.	3.8	13
61	Interactions and reactivity of Hg(II) on glutathione modified gold electrode studied by EQCN technique. <i>Journal of Electroanalytical Chemistry</i> , 2008, 622, 173-183.	3.8	13
62	Platinum Oxide Growth on Pt/C Fuel Cell Catalysts Using Asymmetric Scan Electrochemical Quartz Crystal Nanogravimetry. <i>Electrocatalysis</i> , 2015, 6, 1-6.	3.0	13
63	Relaxation Spectrum Analysis of Galvanostatic Oxidation of Silver Electrodes. <i>Journal of the Electrochemical Society</i> , 1986, 133, 1625-1629.	2.9	12
64	Expulsion of borate ions from the silver/solution interfacial region during underpotential deposition discharge of Bi III in borate buffer. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 251.	1.7	12
65	Chromium(VI) but Not Chromium(III) Species Decrease Mitoxantrone Affinity to DNA. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1021-1030.	2.6	12
66	Lattice polarization effects in electrochromic switching in WO <sub>3</sub> ·x films studied by pulse-nanogravimetric technique. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1251-1260.	2.5	12
67	Supramolecular interactions of oxidative stress biomarker glutathione with fluorone black. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 146-152.	3.9	12
68	Dissociative adsorption of thiourea at a polycrystalline silver electrode in alkaline media. <i>Electrochimica Acta</i> , 1987, 32, 41-45.	5.2	10
69	Assembly of Gold Nanoparticles Induced by Metal Ions. <i>ACS Symposium Series</i> , 2012, , 207-240.	0.5	10
70	Morphology of AgO Crystallites Deposited from Alkaline Solutions under Potential Step and Stimulated Pulse Potentiostatic Conditions. <i>Journal of the Electrochemical Society</i> , 1986, 133, 468-475.	2.9	9
71	Large cation model of dissociative reduction of electrochromic WO <sub>3</sub> ·x films. <i>Open Chemistry</i> , 2009, 7, 234-245.	1.9	9
72	Antioxidant Effectiveness in Preventing Paraquat-Mediated Oxidative DNA Damage in the Presence of H <sub>2</sub> O <sub>2</sub> . <i>ACS Symposium Series</i> , 2011, , 211-233.	0.5	9

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73	Design of Novel Biosensors for Determination of Phenolic Compounds using Catalyst-Loaded Reduced Graphene Oxide Electrodes. <i>Mediterranean Journal of Chemistry</i> , 2014, 3, 916-928.	0.7	9
74	Controlled release of targeted chemotherapeutic drug dabrafenib for melanoma cancers monitored using surface-enhanced Raman scattering (SERS) spectroscopy. <i>Mediterranean Journal of Chemistry</i> , 2018, 7, 18-27.	0.7	9
75	Influence of the adsorption of organic compounds on submonolayer stripping voltammetry of metals at solid electrodes. <i>Electroanalysis</i> , 1990, 2, 319-326.	2.9	8
76	Detection of Oxidative Stress Biomarkers Using Functional Gold Nanoparticles. , 2012, , 241-281.		8
77	Cancer-Targeted Controlled Delivery of Chemotherapeutic Anthracycline Derivatives Using Apoferritin Nanocage Carriers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1362.	4.1	8
78	Magneto-Plasmonic Nanoparticle Grid Biosensor with Enhanced Raman Scattering and Electrochemical Transduction for the Development of Nanocarriers for Targeted Delivery of Protected Anticancer Drugs. <i>Nanomaterials</i> , 2021, 11, 1326.	4.1	7
79	Controlled release of targeted anti-leukemia drugs azacitidine and decitabine monitored using surface-enhanced Raman scattering (SERS) spectroscopy. <i>Mediterranean Journal of Chemistry</i> , 2017, 6, 125-132.	0.7	7
80	Multifunctional Polypeptide EQCN Sensors: Probing the Cysteamine-Glutathione Film Permeability with Hg(II) Ions. <i>Sensors</i> , 2008, 8, 7224-7240.	3.8	6
81	Substantial Influence of Temperature on Anchoring of Gold Nanoparticle Monolayer for Performance of DNA Biosensors. <i>Electroanalysis</i> , 2010, 22, 2323-2329.	2.9	5
82	Oxidative Stress and Human Health. <i>ACS Symposium Series</i> , 2015, , 1-33.	0.5	5
83	Quantum conductance of monatomic Ni nanobridges. <i>Electrochimica Acta</i> , 2006, 51, 5811-5824.	5.2	4
84	Large Cation Model of Dissociative Reduction of $WO_3-x$ Lattice Studied by EQCN and AFM. <i>ECS Transactions</i> , 2009, 19, 11-23.	0.5	4
85	Functional Gold Nanoparticles for Biointerfaces. <i>ACS Symposium Series</i> , 2012, , 147-176.	0.5	4
86	Induction time in stripping voltammetry at solid electrodes. <i>Electroanalysis</i> , 1989, 1, 311-315.	2.9	3
87	Photoelectrochemical Behavior of p-ATP/PANI Film and Nanoparticulate p-ATP/PANI/TiO <sub>2</sub> Film on Au Electrodes. <i>ACS Symposium Series</i> , 2002, , 113-127.	0.5	3
88	Mechanistic studies of the deposition and cathodic stripping of thioacetamide at a silver electrode in alkaline media. <i>Electroanalysis</i> , 1989, 1, 117-123.	2.9	2
89	Electrochemical formation of quantum-conductance Cu-metal nanobridges. <i>Russian Journal of Electrochemistry</i> , 2008, 44, 663-675.	0.9	2
90	Interactions of antifouling monolayers: Energy transfer from excited albumin molecule to phenol red dye. <i>Chemical Papers</i> , 2015, 69, .	2.2	2

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91	Composite Films of Copper / Boron Nitride and Nickel / Boron Nitride. Materials Research Society Symposia Proceedings, 1996, 451, 481.	0.1	1
92	Composite Films of Nickel / Silicon Carbide. Materials Research Society Symposia Proceedings, 1997, 495, 425.	0.1	1
93	DNA-Protective Mechanisms of Glutathione Intervention in Catechol-Mediated Oxidative DNA Damage in the Presence of Copper(II) Ions. ACS Symposium Series, 2011, , 177-209.	0.5	1
94	Electrodeposition of Metals on Conductive Polymer Films. Materials Research Society Symposia Proceedings, 1996, 451, 507.	0.1	0
95	Characterizations of Nanostructured Films as Responsive Electrode Materials. Materials Research Society Symposia Proceedings, 2001, 704, 9291.	0.1	0
96	Interfacial Ion Fluxes at Nanostructured Thin Films. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	0
97	Reply to Comment on "Multimodal coupling of optical transitions and plasmonic oscillations in rhodamine B modified gold nanoparticles" by I. Blakey. Physical Chemistry Chemical Physics, 2011, 13, 16446.	2.8	0
98	DNA Damage by Highly Oxidizing Environmental Pollutants. ACS Symposium Series, 2015, , 279-299.	0.5	0
99	Redox Activity of Oxidative Stress-Damping Endogenous Thiol Biomolecules. ACS Symposium Series, 2015, , 329-351.	0.5	0
100	Charge-transfer interactions of Cr species with DNA. Journal of Inorganic Biochemistry, 2017, 175, 148-153.	3.5	0