

LIST OF PEER-REVIEWED PUBLICATIONS

(248 publications, including: 166 papers published in peer-reviewed journals, 19 invited papers in Special Issues, 44 chapters in books and 1 book, 4 edited books; * - senior Author) over 5135 citations, *h*-index: 41, *i10*-index: 94 (Google Scholar)

ILKHANI H.; ZHONG C.-J.; HEPEL M*.

“Magneto-Plasmonic Nanoparticle Grid Biosensor with Enhanced Raman Scattering and Electrochemical Transduction for the Development of Nanocarriers for Targeted Delivery of Protected Anticancer Drugs”

Nanomaterials **2021**, *11*, 1326;

DOI: [10.3390/nano11051326](https://doi.org/10.3390/nano11051326).

KURZATKOWSKA K.; PAZOS M.A.P.; HERSCHKOWITZ J.I.; HEPEL M*.

“Cancer-Targeted Controlled Delivery of Chemotherapeutic Anthracycline Derivatives Using Apoferritin Nanocage Carriers”

International Journal of Molecular Science **2021**, *22*, 1262;

DOI: [10.3390/ijms22031362](https://doi.org/10.3390/ijms22031362).

HEPEL M.

“Magnetic nanoparticles for nanomedicine”

Magnetochemistry. **2020**, *6*, 3; **Invited paper for the special issue.**

DOI: [10.3390/magnetochemistry6010003](https://doi.org/10.3390/magnetochemistry6010003).

RUNNING L., ESPINAL R. and HEPEL M.*

"Controlled release of targeted chemotherapeutic drug dabrafenib for melanoma cancers monitored using surface-enhanced Raman scattering (SERS) spectroscopy"

Mediterranean Journal of Chemistry, *7*(1) (2018) 18-27;

DOI: [10.13171/mjc71/01803171500-hepel](https://doi.org/10.13171/mjc71/01803171500-hepel)

HEPEL M.* and STOBIECKA M.

"Supramolecular Interactions of Oxidative Stress Biomarker Glutathione with Fluorone Black"

Spectrochimica Acta A, *192* (2018) 146-152;

DOI: [10.1016/j.saa.2017.11.017](https://doi.org/10.1016/j.saa.2017.11.017).

SANTIAGO T., DeVAUX R.V., KURZATKOWSKA K., ESPINAL R., HERSCHKOWITZ J.I., and HEPEL M.*

"Surface-enhanced Raman scattering investigation of targeted delivery and controlled release of gemcitabine"

International Journal of Nanomedicine, *12* (2017) 7763-7776;

DOI: [10.2147/IJN.S149306](https://doi.org/10.2147/IJN.S149306).

SMITH M. and HEPEL M.*

"Controlled release of targeted anti-leukemia drugs azacitidine and decitabine monitored using surface-enhanced Raman scattering (SERS) spectroscopy"

Mediterranean Journal of Chemistry, *6*(4) (2017) 125-132;

DOI: [10.13171/mjc64/01706081223-hepel](https://doi.org/10.13171/mjc64/01706081223-hepel)

KURZATKOWSKA K., SANTIAGO T., and HEPEL M.*

"Plasmonic nanocarrier grid-enhanced Raman sensor for studies of anticancer drug delivery"
Biosensors and Bioelectronics, 91 (2017) 780-787.

ILKHANI H., HUGHES T., LI J., ZHONG C.J.*, and HEPEL M.*

"Nanostructured SERS-electrochemical biosensors for testing of anticancer drug interactions with DNA"

Biosensors and Bioelectronics, 80 (2016) 257-264;
DOI: 10.1016/j.bios.2016.01.068.

LI J., SKEETE Z., SHAN S., YAN S., KURZATKOWSKA K., ZHAO W., NGO Q.M.,
HOLUBOVSKA P., LUO J., HEPEL M.*, and ZHONG C.J.*

"Surface Enhanced Raman Scattering Detection of Cancer Biomarkers
with Bifunctional Nanocomposite Probes"

Analytical Chemistry, 87 (2015) 10698-10702;
DOI: 10.1021/acs.analchem.5b03456.

RICE C.A.*, BETANCOURT D., and HEPEL M.*

"Platinum Oxide Growth on Pt/C Fuel Cell Catalysts Using Asymmetric Scan Electrochemical
Quartz Crystal Nanogravimetry"

Electrocatalysis, 6 (2015) 1-6,
DOI: 10.1007/s12678-014-0221-2.

XU H., WALLACE R., and HEPEL M.*

"Interactions of antifouling monolayers. Energy transfer from excited albumin molecule to
Phenol Red dye"

✪ **Invited paper for the Special Issue on *Biosensors*.**

Chemical Papers, 69 (2015) 227-236.

KUBESA O., MORRISEY K., MATTHEWS S., PROETTA J., LI C. SKLADAL P.*, HEPEL
M.*

"Design of Novel Biosensors for Determination of Phenolic Compounds using Catalyst-Loaded
Reduced Graphene Oxide Electrodes"

Mediterranean Journal of Chemistry, 3 (2014) 916-928.

HEPEL M.*, DELA-MOSS L.I., and REDMOND H.

"Lattice polarization effects in electrochromic switching in WO_{3-x} films studied by pulse-
nanogravimetric technique"

Invited paper for the Special Issue devoted to the memory of Professor V.S. Bagotzky.

Journal of Solid State Electrochemistry, 18 (2014) 1251-1260, DOI: [10.1007/s10008-013-2219-8](https://doi.org/10.1007/s10008-013-2219-8)

NOWICKA A.M., STOJEK Z., HEPEL M.*

"Chromium(VI) but not chromium(III) species decrease mitoxantrone affinity to DNA"

Journal of Physical Chemistry B, 117 (2013) 1021-1030.

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Mutation Research 735 (2012) 1-11.

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"Mercury/homocysteine ligation-induced ON/OFF switching of a T-T mismatch-based oligonucleotide molecular-beacon"

Analytical Chemistry 84 (2012) 4970-4978, DOI: 10.1021/ac300632u.

HEPEL M.*, STOBIECKA M.

"Comparative Kinetic Model of Fluorescence Enhancement in Selective Binding of Monochlorobimane to Glutathione"

Journal of Photochemistry and Photobiology A 225 (2011) 72-80.

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"Double-Shell Gold Nanoparticle-Based DNA-Carriers with Poly-L-lysine Binding Surface"

Biomaterials 32 (2011) 3312-3321.

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"Effect of Buried Potential Barrier in Label-less Electrochemical Immunodetection of Glutathione and Glutathione-Capped Gold Nanoparticles"

Biosensors and Bioelectronics 26 (2011) 3524-3530.

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"Multimodal Coupling of Optical Transitions and Plasmonic Oscillations in Rhodamine B Modified Gold Nanoparticles"

Physical Chemistry Chemical Physics 13 (2011) 1131-1139; 13 (2011) 16446-16448.

HEPEL M.*, STOBIECKA M.

"Microsensor Arrays for Determination of Biomarkers of Oxidative Stress",

ECS Transactions, 35 [7] (2011) 125-134.

HEPEL M.*, STOBIECKA M.

"Novel DNA-Hybridization Biosensors for Studies of Atrazine Interactions with DNA",

★Invited paper for *Advances in Environmental Research* 6 (2011) 253-298.

STOBIECKA M., HEPEL M.*

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★Invited paper for *Advances in Medicine and Biology* 13 (2011) 177-202.

XU H. and HEPEL M.*,

"Molecular Beacon-Based Fluorescent Assay for Selective Detection of Glutathione and Cysteine",

Analytical Chemistry 83 (2011) 813-819.

NOWICKA A.M., KOWALCZYK A., DONTEN M., LEECH D., HEPEL M.*, STOJEK Z.*,
"Substantial Influence of Temperature on Anchoring of Gold-Nanoparticle Monolayer for
Performance of DNA Biosensors"

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Biosensors for Detection of DNA Damage by Toxicants,

ECS Transactions 33 [8] (2010) 3-15.

STOBIECKA M., CUTLER S., REED Z., PRANCE A., HEPEL M.*

Detection of Oxidative Stress Biomarker Homocysteine Utilizing Resonance Elastic Light
Scattering,

ECS Transactions 28 [18] (2010) 115-128.

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Resonance Elastic Light Scattering and Plasmonic Phenomena in Glutathione-Mediated Gold
Nanoparticle Assembly,

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Novel DNA-Hybridization Biosensors for Studies of DNA Underwinding Caused by Herbicides
and Pesticides,

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Rapid Functionalization of Metal Nanoparticles by Moderator-Tunable Ligand-Exchange Process
for Biosensor Designs,

Sensors Actuators, B: Chemical 149 (2010) 373-380.

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Exchange in Glutathione-Induced Gold Nanoparticle Assembly,

J. Colloid and Interface Science 350 (2010) 168-177.

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"Ligand Exchange Effects in Gold Nanoparticle Assembly Induced by Oxidative Stress
Biomarkers: Homocysteine and cysteine",

Biophysical Chemistry 146 (2010) 98-107.

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Nanogravimetric and Voltammetric DNA-Hybridization Biosensors for Studies of DNA Damage
by Common Toxicants and Pollutants",

Biophysical Chemistry 146 (2010) 42-53.

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"Large Cation Model of Dissociative Reduction of WO_{3-x} Lattice Studied by EQCN and AFM"
ECS Transactions 19 [23] (2009) 11-23.

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"Molecularly Templated Polymer Matrix Films for Biorecognition Processes: Sensors for Evaluating Oxidative Stress and Redox Buffering Capacity"
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"Antineoplastic Drug Interactions with DNA Modified Gold Piezoelectrodes"
ECS Transactions 19 [28] (2009) 1-13.

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"Large Cation Model of Dissociative Reduction of Electrochromic WO_{3-x} Films"
Central European Journal of Chemistry 7 (2009) 234-245.

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Sensors 8 (2008) 7224-7240.

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"Interactions and Reactivity of Hg(II) on Glutathione Modified Gold Electrode Studied by EQCN Technique "
Journal of Electroanalytical Chemistry 622 (2008) 173-183.

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Chemicke Listy 102 (2008) 96-97.

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"Electrochemical Formation of Quantum Conductance Cu-Metal Nanobridges"
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"Glutathione Modified Gold Piezoelectric and Voltammetric Sensors for Determination of Mercury in a Wide Concentration Range"
Sensors and Transducers 88 (2008) 47-58.

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HEPEL M.*, REDMOND H., DELA I.

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★Invited paper for the Special Issue on "*Solar-Hydrogen*",
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HEPEL M.*, STOBIECKA M.

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★Invited paper to the Special Issue: "*Selection of Papers from the 18th International Symposium on Bioelectrochemistry BES-ISE 2005*",
Bioelectrochemistry 70 (2007) 155-164.

HEPEL M.*, DELA I., HEPEL T., LUO J., ZHONG C.J.

"Novel Dynamic Effects in Electrocatalysis of Methanol Oxidation on Supported Nanoporous TiO₂ Bimetallic Nanocatalysts",

★Invited paper to the special issue: "*Surface Imaging/Spectroscopy at the Solid/Liquid Interface*", *Electrochimica Acta* 52 (2007) 5529-5547.

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"Inhibiting Properties of BIM for Cu(II)/Cu(I) Reduction in Chloride Media Studied by RDE and EQCN Techniques", *Corrosion Science* 49 (2007) 3381-3407.

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"Quantum Conductance of Monatomic Ni Nanobridges"

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"Nanoporous TiO₂-Supported Bimetallic Catalysts for Methanol Oxidation in Acidic Media"

Electrochemistry Communications 8/9 (2006) 1439-1444.

PRIBYL J., HEPEL M.*, and SKLADAL P.*

"Piezoelectric Immunosensors for Polychlorinated Biphenyls Operating in Aqueous and Organic Phases",

Sensors and Actuators, B: Chemical 113 (2006) 900-910.

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"Effect of Albumin on Underpotential Lead Deposition and Stripping on Ag-RDE",
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STOBIECKA M. HEPEL M.* and RADECKI J.
"Transient Conformation Changes of Albumin Adsorbed on Gold Piezoelectrodes",
★Invited paper to the Special Issue: "*Electrochemistry from Nanostructures to Power Plants*",
Electrochimica Acta 50 (2005) 4873-4887.

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"Photoelectrochemical Degradation of Diazo Dyes on Nanostructured Electrodes",
★Invited paper to the Special Issue: "*Electrochemistry from Nanostructures to Power Plants*",
Electrochimica Acta 50 (2005) 5278-5291.

HEPEL M.* and TEWKS BURY E.
"Nanogravimetric Study of Templated Copper Deposition in Ion-Channels of Self-Assembled
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★Invited paper to the Special Issue: "*The Role of Electrochemistry in the Sustained
Development of Modern Societies*",
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"Ion-Gating Phenomena of Self-Assembling Glutathione Films on Gold Piezoelectrodes",
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"Kinetics of CuEtX Film Formation on Copper Piezoelectrodes",

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"Ion Channeling Phenomena and TL-UPD Induced Film Dynamics in Model Biomembranes Studied with EQCN and QCI Techniques",

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