

# Sabine Szunerits

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3145905/sabine-szunerits-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

424  
papers

14,406  
citations

61  
h-index

88  
g-index

440  
ext. papers

16,633  
ext. citations

6.4  
avg, IF

6.92  
L-index

#	Paper	IF	Citations
4 <sup>24</sup>	Preparation of superhydrophobic coatings on zinc as effective corrosion barriers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1150-3	9.5	244
4 <sup>23</sup>	Surface plasmon resonance-based biosensors: From the development of different SPR structures to novel surface functionalization strategies. <i>Current Opinion in Solid State and Materials Science</i> , <b>2011</b> , 15, 208-224	12	233
4 <sup>22</sup>	Sensing using localised surface plasmon resonance sensors. <i>Chemical Communications</i> , <b>2012</b> , 48, 8999-9010	10	219
4 <sup>21</sup>	Polyurethane sponge functionalized with superhydrophobic nanodiamond particles for efficient oil/water separation. <i>Chemical Engineering Journal</i> , <b>2017</b> , 307, 319-325	14.7	198
4 <sup>20</sup>	Facile synthesis of fluorinated polydopamine/chitosan/reduced graphene oxide composite aerogel for efficient oil/water separation. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 17-28	14.7	192
4 <sup>19</sup>	Cu-Ag bimetallic nanoparticles on reduced graphene oxide nanosheets as peroxidase mimic for glucose and ascorbic acid detection. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 238, 842-851	8.5	192
4 <sup>18</sup>	Antibacterial activity of graphene-based materials. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 6892-6912	7.3	186
4 <sup>17</sup>	Reduction and functionalization of graphene oxide sheets using biomimetic dopamine derivatives in one step. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 1016-20	9.5	167
4 <sup>16</sup>	Different strategies for functionalization of diamond surfaces. <i>Journal of Solid State Electrochemistry</i> , <b>2008</b> , 12, 1205-1218	2.6	165
4 <sup>15</sup>	Recent advances in the development of graphene-based surface plasmon resonance (SPR) interfaces. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 1435-43	4.4	159
4 <sup>14</sup>	Functional Carbon Quantum Dots as Medical Countermeasures to Human Coronavirus. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42964-42974	9.5	151
4 <sup>13</sup>	Recent advances in surface chemistry strategies for the fabrication of functional iron oxide based magnetic nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 10729-52	7.7	142
4 <sup>12</sup>	Silicon nanowires coated with silver nanostructures as ultrasensitive interfaces for surface-enhanced Raman spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1396-403	9.5	125
4 <sup>11</sup>	Reduced graphene oxide nanosheets decorated with Au, Pd and AuPd bimetallic nanoparticles as highly efficient catalysts for electrochemical hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20254-20266	13	121
4 <sup>10</sup>	Carbon-based quantum particles: an electroanalytical and biomedical perspective. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 4281-4316	58.5	119
4 <sup>09</sup>	Gold-graphene nanocomposites for sensing and biomedical applications. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 4301-4324	7.3	119
4 <sup>08</sup>	The synthesis of citrate-modified silver nanoparticles in an aqueous suspension of graphene oxide nanosheets and their antibacterial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 105, 128-36	6	117

407	Reduced graphene oxide decorated with Co <sub>3</sub> O <sub>4</sub> nanoparticles (rGO-Co <sub>3</sub> O <sub>4</sub> ) nanocomposite: A reusable catalyst for highly efficient reduction of 4-nitrophenol, and Cr(VI) and dye removal from aqueous solutions. <i>Chemical Engineering Journal</i> , <b>2017</b> , 322, 375-384	14.7	113
406	The real meaning of Nernst's steady diffusion layer concept under non-forced hydrodynamic conditions. A simple model based on Levich's seminal view of convection. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 500, 62-70	4.1	113
405	Preparation of reduced graphene oxide/Ni(OH) <sub>2</sub> composites by electrophoretic deposition: application for non-enzymatic glucose sensing. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5525-5533	13	110
404	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 50, 239-43	11.8	110
403	Electrochemical Methodologies for the Detection of Pathogens. <i>ACS Sensors</i> , <b>2018</b> , 3, 1069-1086	9.2	108
402	Green chemistry approach for the synthesis of ZnO-carbon dots nanocomposites with good photocatalytic properties under visible light. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 465, 286-94	9.3	103
401	Iron oxide magnetic nanoparticles with versatile surface functions based on dopamine anchors. <i>Nanoscale</i> , <b>2013</b> , 5, 2692-702	7.7	99
400	Preparation of boron-doped diamond nanowires and their application for sensitive electrochemical detection of tryptophan. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 438-441	5.1	95
399	Highly sensitive detection of DNA hybridization on commercialized graphene-coated surface plasmon resonance interfaces. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11211-6	7.8	90
398	Preparation of reduced graphene oxide/Cu nanoparticle composites through electrophoretic deposition: application for nonenzymatic glucose sensing. <i>RSC Advances</i> , <b>2015</b> , 5, 15861-15869	3.7	89
397	Cellular and in vivo toxicity of functionalized nanodiamond in <i>Xenopus</i> embryos. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8064		89
396	Direct functionalization of nanodiamond particles using dopamine derivatives. <i>Langmuir</i> , <b>2011</b> , 27, 12451-7	1.7	86
395	Core-shell structured reduced graphene oxide wrapped magnetically separable rGO@CuZnO@Fe <sub>3</sub> O <sub>4</sub> microspheres as superior photocatalyst for CO <sub>2</sub> reduction under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 654-665	21.8	82
394	Photochemical oxidation of hydrogenated boron-doped diamond surfaces. <i>Electrochemistry Communications</i> , <b>2005</b> , 7, 937-940	5.1	82
393	Glycan-functionalized diamond nanoparticles as potent <i>E. coli</i> anti-adhesives. <i>Nanoscale</i> , <b>2013</b> , 5, 2307-16	7	81
392	Preparation of magnetic, superhydrophobic/superoleophilic polyurethane sponge: Separation of oil/water mixture and demulsification. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123339	14.7	81
391	Plasmonic photothermal destruction of uropathogenic <i>E. coli</i> with reduced graphene oxide and core/shell nanocomposites of gold nanorods/reduced graphene oxide. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 375-386	7.3	78
390	How the Intricate Interactions between Carbon Nanotubes and Two Bilirubin Oxidases Control Direct and Mediated O <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23074-85	9.5	78

389	Sensitive electrochemical detection of cardiac troponin I in serum and saliva by nitrogen-doped porous reduced graphene oxide electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 180-187	8.5	76
388	High Efficiency of Functional Carbon Nanodots as Entry Inhibitors of Herpes Simplex Virus Type 1. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9004-13	9.5	76
387	Label-free femtomolar cancer biomarker detection in human serum using graphene-coated surface plasmon resonance chips. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 606-611	11.8	73
386	Preparation of superhydrophobic coatings on zinc, silicon, and steel by a solution-immersion technique. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2086-91	9.5	73
385	Functionalization of Azide-Terminated Silicon Surfaces with Glycans Using Click Chemistry: XPS and FTIR Study. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 368-375	3.8	71
384	MoS <sub>2</sub> /reduced graphene oxide as active hybrid material for the electrochemical detection of folic acid in human serum. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 85, 807-813	11.8	70
383	Efficient and Durable Oxygen Reduction Electrocatalyst Based on CoMn Alloy Oxide Nanoparticles Supported Over N-Doped Porous Graphene. <i>ACS Catalysis</i> , <b>2017</b> , 7, 6700-6710	13.1	70
382	Graphene-based biosensors. <i>Interface Focus</i> , <b>2018</b> , 8, 20160132	3.9	69
381	One-pot synthesis of gold nanoparticle/molybdenum cluster/graphene oxide nanocomposite and its photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 130-131, 270-276	21.8	69
380	Comparison of the chemical composition of boron-doped diamond surfaces upon different oxidation processes. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 5818-5824	6.7	68
379	Surface Plasmon Resonance Investigation of Silver and Gold Films Coated with Thin Indium Tin Oxide Layers: Influence on Stability and Sensitivity. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15813-15817	3.8	68
378	Diamond nanowires for highly sensitive matrix-free mass spectrometry analysis of small molecules. <i>Nanoscale</i> , <b>2012</b> , 4, 231-8	7.7	67
377	Gold island films on indium tin oxide for localized surface plasmon sensing. <i>Nanotechnology</i> , <b>2008</b> , 19, 195712	3.4	67
376	Electrochemical Aptamer-Based Biosensors for the Detection of Cardiac Biomarkers. <i>ACS Omega</i> , <b>2018</b> , 3, 12010-12018	3.9	67
375	Tip-Enhanced Raman Spectroscopy of Combed Double-Stranded DNA Bundles. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 1174-1181	3.8	66
374	Functionalization of diamond nanoparticles using "click" chemistry. <i>Langmuir</i> , <b>2010</b> , 26, 13168-72	4	66
373	Photocatalytic activity of silicon nanowires under UV and visible light irradiation. <i>Chemical Communications</i> , <b>2011</b> , 47, 991-3	5.8	65
372	Silicon nanowire arrays-induced graphene oxide reduction under UV irradiation. <i>Nanoscale</i> , <b>2011</b> , 3, 4662-9	7.9	65

371	Preparation and characterization of thin films of SiO(x) on gold substrates for surface plasmon resonance studies. <i>Langmuir</i> , <b>2006</b> , 22, 1660-3	4	65
370	Nanostructures for the Inhibition of Viral Infections. <i>Molecules</i> , <b>2015</b> , 20, 14051-81	4.8	64
369	Phenylboronic-acid-modified nanoparticles: potential antiviral therapeutics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 12488-98	9.5	63
368	Nucleosides and ODN electrochemical detection onto boron doped diamond electrodes. <i>Bioelectrochemistry</i> , <b>2004</b> , 63, 303-6	5.6	63
367	Solvothermal synthesis of CoS/reduced porous graphene oxide nanocomposite for selective colorimetric detection of Hg(II) ion in aqueous medium. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 244, 684-692	8.5	62
366	Enhanced antibacterial activity of carbon dots functionalized with ampicillin combined with visible light triggered photodynamic effects. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 170, 347-354	6	62
365	Label-free detection of lectins on carbohydrate-modified boron-doped diamond surfaces. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 8203-10	7.8	62
364	Synthesis and photocatalytic activity of iodine-doped ZnO nanoflowers. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 10982		61
363	Simultaneous electrochemical detection of tryptophan and tyrosine using boron-doped diamond and diamond nanowire electrodes. <i>Electrochemistry Communications</i> , <b>2013</b> , 35, 84-87	5.1	60
362	Graphene-coated surface plasmon resonance interfaces for studying the interactions between bacteria and surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 5422-31	9.5	59
361	Non-enzymatic glucose sensing on long and short diamond nanowire electrodes. <i>Electrochemistry Communications</i> , <b>2013</b> , 34, 286-290	5.1	59
360	Magnetic polyurethane sponge for efficient oil adsorption and separation of oil from oil-in-water emulsions. <i>Separation and Purification Technology</i> , <b>2020</b> , 240, 116627	8.3	59
359	Sensitive sugar detection using 4-aminophenylboronic acid modified graphene. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 50, 331-7	11.8	58
358	Photothermally triggered on-demand insulin release from reduced graphene oxide modified hydrogels. <i>Journal of Controlled Release</i> , <b>2017</b> , 246, 164-173	11.7	58
357	Reduced graphene oxide/polyethylenimine based immunosensor for the selective and sensitive electrochemical detection of uropathogenic Escherichia coli. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 260, 255-263	8.5	57
356	Ag and Au nanoparticles/reduced graphene oxide composite materials: Synthesis and application in diagnostics and therapeutics. <i>Advances in Colloid and Interface Science</i> , <b>2019</b> , 271, 101991	14.3	57
355	Nanodiamond particles/reduced graphene oxide composites as efficient supercapacitor electrodes. <i>Carbon</i> , <b>2014</b> , 68, 175-184	10.4	57
354	Preparation of graphene/tetrathiafulvalene nanocomposite switchable surfaces. <i>Chemical Communications</i> , <b>2012</b> , 48, 1221-3	5.8	56

353	Preparation of silver nanoparticles/polydopamine functionalized polyacrylonitrile fiber paper and its catalytic activity for the reduction 4-nitrophenol. <i>Applied Surface Science</i> , <b>2017</b> , 411, 163-169	6.7	55
352	Surface plasmon resonance: signal amplification using colloidal gold nanoparticles for enhanced sensitivity. <i>Reviews in Analytical Chemistry</i> , <b>2014</b> , 33,	2.3	55
351	Magnetic reduced graphene oxide loaded hydrogels: Highly versatile and efficient adsorbents for dyes and selective Cr(VI) ions removal. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 507, 360-369	9.3	55
350	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. <i>Applied Materials Today</i> , <b>2017</b> , 8, 141-149	6.6	55
349	Approach for plasmonic based DNA sensing: amplification of the wavelength shift and simultaneous detection of the plasmon modes of gold nanostructures. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 3288-96	7.8	55
348	New approach to writing and simultaneous reading of micropatterns: combining surface plasmon resonance imaging with scanning electrochemical microscopy (SECM). <i>Langmuir</i> , <b>2004</b> , 20, 9236-41	4	55
347	Localized surface plasmon-enhanced fluorescence spectroscopy for highly-sensitive real-time detection of DNA hybridization. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 2579-85	11.8	54
346	Direct amination of hydrogen-terminated boron doped diamond surfaces. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 1185-1190	5.1	53
345	Transdermal skin patch based on reduced graphene oxide: A new approach for photothermal triggered permeation of ondansetron across porcine skin. <i>Journal of Controlled Release</i> , <b>2017</b> , 245, 137-146	11.7	52
344	Plasmonic photothermal cancer therapy with gold nanorods/reduced graphene oxide core/shell nanocomposites. <i>RSC Advances</i> , <b>2016</b> , 6, 1600-1610	3.7	52
343	Influence of the surface termination on the electrochemical properties of boron-doped diamond (BDD) interfaces. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 402-406	5.1	52
342	Cobalt phthalocyanine-supported reduced graphene oxide: A highly efficient catalyst for heterogeneous activation of peroxydisulfate for rhodamine B and pentachlorophenol degradation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 465-475	14.7	52
341	Cobalt phthalocyanine tetracarboxylic acid modified reduced graphene oxide: a sensitive matrix for the electrocatalytic detection of peroxydinitrite and hydrogen peroxide. <i>RSC Advances</i> , <b>2015</b> , 5, 1474-1484	2.7	51
340	Thiol-yne reaction on boron-doped diamond electrodes: application for the electrochemical detection of DNA-DNA hybridization events. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 194-200	7.8	51
339	Short- and Long-Range Sensing on Gold Nanostructures, Deposited on Glass, Coated with Silicon Oxide Films of Different Thicknesses. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 8239-8243	3.8	51
338	Stability of the gold/silica thin film interface: electrochemical and surface plasmon resonance studies. <i>Langmuir</i> , <b>2006</b> , 22, 10716-22	4	51
337	Reduced Graphene-Oxide-Embedded Polymeric Nanofiber Mats: An "On-Demand" Photothermally Triggered Antibiotic Release Platform. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 41098-41106	9.5	51
336	Magnetic FeO@VO/rGO nanocomposite as a recyclable photocatalyst for dye molecules degradation under direct sunlight irradiation. <i>Chemosphere</i> , <b>2018</b> , 191, 503-513	8.4	50



335	Mapping concentration profiles within the diffusion layer of an electrode: Part III. Steady-state and time-dependent profiles via amperometric measurements with an ultramicroelectrode probe. <i>Electrochemistry Communications</i> , <b>2000</b> , 2, 353-358	5.1	50
334	Nucleic aptamer modified porous reduced graphene oxide/MoS <sub>2</sub> based electrodes for viral detection: Application to human papillomavirus (HPV). <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 991-1000	8.5	49
333	Electrochemical impedance spectroscopy of ZnO nanostructures. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 945-949	5.1	49
332	NiFe layered double hydroxide electrodeposited on Ni foam coated with reduced graphene oxide for high-performance supercapacitors. <i>Electrochimica Acta</i> , <b>2019</b> , 302, 1-9	6.7	49
331	Aluminum surface corrosion and the mechanism of inhibitors using pH and metal ion selective imaging fiber bundles. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 886-94	7.8	48
330	Heat: A Highly Efficient Skin Enhancer for Transdermal Drug Delivery. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2018</b> , 6, 15	5.8	47
329	Reactivity of CoCrMo alloy in physiological medium: Electrochemical characterization of the metal/protein interface. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 4461-4469	6.7	47
328	Comparison of different oxidation techniques on single-crystal and nanocrystalline diamond surfaces. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 474-478	3.5	46
327	Distinction between surface hydroxyl and ether groups on boron-doped diamond electrodes using a chemical approach. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 351-354	5.1	46
326	Mediated electrochemical detection of catechol by tyrosinase-based poly(dicarbazole) electrodes. <i>Journal of Proteomics</i> , <b>2001</b> , 50, 65-77		46
325	Copper oxide supported on three-dimensional ammonia-doped porous reduced graphene oxide prepared through electrophoretic deposition for non-enzymatic glucose sensing. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 346-354	6.7	45
324	Inhibition of type 1 fimbriae-mediated Escherichia coli adhesion and biofilm formation by trimeric cluster thiomannosides conjugated to diamond nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 2325-35	7.7	45
323	Functionalization of Reduced Graphene Oxide via Thiol-Maleimide "Click" Chemistry: Facile Fabrication of Targeted Drug Delivery Vehicles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34194-34203	9.5	45
322	Electrochemical investigation of gold/silica thin film interfaces for electrochemical surface plasmon resonance studies. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 439-444	5.1	45
321	Fabrication of an optoelectrochemical microring array. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 1718-23	7.8	45
320	Glucose-Derived Porous Carbon-Coated Silicon Nanowires as Efficient Electrodes for Aqueous Micro-Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4298-302	9.5	44
319	Nanomolar hydrogen peroxide detection using horseradish peroxidase covalently linked to undoped nanocrystalline diamond surfaces. <i>Langmuir</i> , <b>2012</b> , 28, 587-92	4	44
318	Selective adhesion of Bacillus cereus spores on heterogeneously wetted silicon nanowires. <i>Langmuir</i> , <b>2010</b> , 26, 3479-84	4	44

317	Preparation of superhydrophobic and oleophobic diamond nanogras array. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 10671		44
316	Synthesis and Luminescence Properties of (N-Doped) ZnO Nanostructures from a Dimethylformamide Aqueous Solution. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13643-13650	3.8	44
315	Imaging of DNA hybridization on microscopic polypyrrole patterns using scanning electrochemical microscopy (SECM): the HRP bio-catalyzed oxidation of 4-chloro-1-naphthol. <i>Analyst, The</i> , <b>2006</b> , 131, 186-93	5	44
314	PMS activation using reduced graphene oxide under sonication: Efficient metal-free catalytic system for the degradation of rhodamine B, bisphenol A, and tetracycline. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 52, 164-175	8.9	44
313	Detection of folic acid protein in human serum using reduced graphene oxide electrodes modified by folic-acid. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 75, 389-95	11.8	43
312	Surface Plasmon Resonance based sensing of lysozyme in serum on Micrococcus lysodeikticus-modified graphene oxide surfaces. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 89, 525-531	11.8	43
311	One-step immersion for fabrication of superhydrophobic/superoleophilic carbon felts with fire resistance: Fast separation and removal of oil from water. <i>Chemical Engineering Journal</i> , <b>2018</b> , 331, 372-382	14.7	43
310	Reduced Graphene Oxide Modified Electrodes for Sensitive Sensing of Gliadin in Food Samples. <i>ACS Sensors</i> , <b>2016</b> , 1, 1462-1470	9.2	43
309	Bioinspired Anchorable Thiol-Reactive Polymers: Synthesis and Applications Toward Surface Functionalization of Magnetic Nanoparticles. <i>Macromolecules</i> , <b>2014</b> , 47, 5124-5134	5.5	43
308	Enhancing LSPR Sensitivity of Au Gratings through Graphene Coupling to Au Film. <i>Plasmonics</i> , <b>2014</b> , 9, 507-512	2.4	43
307	Thin chitosan films as a platform for SPR sensing of ferric ions. <i>Analyst, The</i> , <b>2008</b> , 133, 673-7	5	43
306	Nanomaterials for transdermal drug delivery: beyond the state of the art of liposomal structures. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8653-8675	7.3	42
305	Spatially resolved electrochemiluminescence on an array of electrode tips. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4382-8	7.8	42
304	Preparation of a responsive carbohydrate-coated biointerface based on graphene/azido-terminated tetrathiafulvalene nanohybrid material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 5386-93	9.5	41
303	Mapping electrochemiluminescence as generated at double-band microelectrodes by confocal microscopy under steady state. <i>ChemPhysChem</i> , <b>2006</b> , 7, 1322-7	3.2	41
302	Antibacterial Applications of Nanodiamonds. <i>International Journal of Environmental Research and Public Health</i> , <b>2016</b> , 13, 413	4.6	41
301	Nanodiamond-PMO for two-photon PDT and drug delivery. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 5803-5808	7.3	41
300	Surface functionalization and biological applications of CVD diamond. <i>MRS Bulletin</i> , <b>2014</b> , 39, 517-524	3.2	40



299	Clicking ferrocene groups to boron-doped diamond electrodes. <i>Chemical Communications</i> , <b>2009</b> , 2753-5	5.8	40
298	Functionalization of glassy carbon with diazonium salts in ionic liquids. <i>Langmuir</i> , <b>2008</b> , 24, 6327-33	4	40
297	Toxicity effect of graphene oxide on growth and photosynthetic pigment of the marine alga <i>Picochlorum</i> sp. during different growth stages. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 4144-4152	5.1	39
296	Peroxynitrite activity of hemin-functionalized reduced graphene oxide. <i>Analyst, The</i> , <b>2013</b> , 138, 4345-52	5	39
295	Seed-mediated electrochemical growth of gold nanostructures on indium tin oxide thin films. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 7838-7844	6.7	39
294	Anti-MRSA Activities of Enterocins DD28 and DD93 and Evidences on Their Role in the Inhibition of Biofilm Formation. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 817	5.7	39
293	A facile preparation of CuS-BSA nanocomposite as enzyme mimics: Application for selective and sensitive sensing of Cr(VI) ions. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 294, 253-262	8.5	38
292	Controllable growth of durable superhydrophobic coatings on a copper substrate via electrodeposition. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 10871-80	3.6	38
291	Nitro-oxidative species in vivo biosensing: challenges and advances with focus on peroxynitrite quantification. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 58, 359-73	11.8	38
290	Short- and Long-Range Sensing Using Plasmonic Nanostructures: Experimental and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15921-15927	3.8	38
289	Comparison of Different Strategies on DNA Chip Fabrication and DNA-Sensing: Optical and Electrochemical Approaches. <i>Electroanalysis</i> , <b>2005</b> , 17, 2001-2017	3	38
288	Mapping concentration profiles within the diffusion layer of an electrode: Part II. Potentiometric measurements with an ultramicroelectrode. <i>Electrochemistry Communications</i> , <b>2000</b> , 2, 248-253	5.1	38
287	Oxidative Burst-Dependent NETosis Is Implicated in the Resolution of Necrosis-Associated Sterile Inflammation. <i>Frontiers in Immunology</i> , <b>2016</b> , 7, 557	8.4	38
286	Nickel oxide nanoparticles grafted on reduced graphene oxide (rGO/NiO) as efficient photocatalyst for reduction of nitroaromatics under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2017</b> , 336, 198-207	4.7	37
285	Graphene oxide chemically reduced and functionalized with KOH-PEI for efficient Cr(VI) adsorption and reduction in acidic medium. <i>Chemosphere</i> , <b>2020</b> , 258, 127316	8.4	37
284	Facile preparation of high density polyethylene superhydrophobic/superoleophilic coatings on glass, copper and polyurethane sponge for self-cleaning, corrosion resistance and efficient oil/water separation. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 525, 76-85	9.3	37
283	Study of the atmospheric corrosion of galvanised steel in a micrometric electrolytic droplet. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 911-915	5.1	37
282	Synthesis of lipidated eNOS peptides by combining enzymatic, noble metal- and acid-mediated protecting group techniques with solid phase peptide synthesis and fragment condensation in solution. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 2940-56	4.8	37

281	Electrochemically triggered release of drugs. <i>European Polymer Journal</i> , <b>2016</b> , 83, 467-477	5.2	36
280	CoO Promoted the Catalytic Activity of Nitrogen-Doped MoS Supported on Carbon Fibers for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 31889-31898	9.5	36
279	Diamond nanowires: a novel platform for electrochemistry and matrix-free mass spectrometry. <i>Sensors</i> , <b>2015</b> , 15, 12573-93	3.8	36
278	Dependence between the Refractive-Index Sensitivity of Metallic Nanoparticles and the Spectral Position of Their Localized Surface Plasmon Band: A Numerical and Analytical Study. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 28551-28559	3.8	36
277	CuS Decorated Functionalized Reduced Graphene Oxide: A Dual Responsive Nanozyme for Selective Detection and Photoreduction of Cr(VI) in an Aqueous Medium. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16131-16143	8.3	35
276	Repeated photoporation with graphene quantum dots enables homogeneous labeling of live cells with extrinsic markers for fluorescence microscopy. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 47	16.7	35
275	Stacking Faults-Induced Quenching of the UV Luminescence in ZnO. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3033-3038	6.4	35
274	Surface plasmon resonance on gold and silver films coated with thin layers of amorphous silicon-carbon alloys. <i>Langmuir</i> , <b>2010</b> , 26, 6058-65	4	35
273	Electrochemical impedance spectroscopy and surface plasmon resonance studies of DNA hybridization on gold/SiO <sub>x</sub> interfaces. <i>Analyst, The</i> , <b>2008</b> , 133, 1097-103	5	35
272	Peptide immobilization on amine-terminated boron-doped diamond surfaces. <i>Langmuir</i> , <b>2007</b> , 23, 4494-7		35
271	Core-shell Ni/NiO grafted cobalt (II) complex: An efficient inorganic nanocomposite for photocatalytic reduction of CO <sub>2</sub> under visible light irradiation. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 370-381	6.7	35
270	Reduction of Cr(VI) to Cr(III) using silicon nanowire arrays under visible light irradiation. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 304, 441-7	12.8	34
269	Voltammetric detection of L-dopa and carbidopa on graphene modified glassy carbon interfaces. <i>Bioelectrochemistry</i> , <b>2013</b> , 93, 15-22	5.6	34
268	Selective detection of hexachromium ions by localized surface plasmon resonance measurements using gold nanoparticles/chitosan composite interfaces. <i>Analyst, The</i> , <b>2009</b> , 134, 881-6	5	34
267	Micro-Imprinting of Oligonucleotides and Oligonucleotide Gradients on Gold Surfaces: A New Approach Based on the Combination of Scanning Electrochemical Microscopy and Surface Plasmon Resonance Imaging (SECM/ SPR-i). <i>Electroanalysis</i> , <b>2005</b> , 17, 495-503	3	34
266	CoSnO nanoparticles as a high performance catalyst for oxidative degradation of rhodamine B dye and pentachlorophenol by activation of peroxydisulfate. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 6569-6578	3.6	33
265	Electrochemically stimulated drug release from flexible electrodes coated electrophoretically with doxorubicin loaded reduced graphene oxide. <i>Chemical Communications</i> , <b>2017</b> , 53, 4022-4025	5.8	33
264	A 980nm driven photothermal ablation of virulent and antibiotic resistant Gram-positive and Gram-negative bacteria strains using Prussian blue nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 480, 63-68	9.3	33

263	Reactivity of Titanium in Physiological Medium. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, C593	3.9	33
262	Monitoring Concentration Profiles In Situ with an Ultramicroelectrode Probe. <i>Electroanalysis</i> , <b>2001</b> , 13, 646-652	3	33
261	Aptamer-Based Electrochemical Sensing of Lysozyme. <i>Chemosensors</i> , <b>2016</b> , 4, 10	4	33
260	Carbohydrate-lectin Interaction on Graphene-Coated Surface Plasmon Resonance (SPR) Interfaces. <i>Plasmonics</i> , <b>2014</b> , 9, 677-683	2.4	32
259	Antimicrobial activity of menthol modified nanodiamond particles. <i>Diamond and Related Materials</i> , <b>2015</b> , 57, 2-8	3.5	32
258	HREELS investigation of the surfaces of nanocrystalline diamond films oxidized by different processes. <i>Langmuir</i> , <b>2010</b> , 26, 18798-805	4	32
257	Sensitivity of Plasmonic Nanostructures Coated with Thin Oxide Films for Refractive Index Sensing: Experimental and Theoretical Investigations. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11769-11775	3.8	32
256	Development and Characterization of a Diamond-Based Localized Surface Plasmon Resonance Interface. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3346-3353	3.8	32
255	Corrosion of galvanised steel under an electrolytic drop. <i>Corrosion Science</i> , <b>2007</b> , 49, 910-919	6.8	32
254	A rapid and easy procedure of biosensor fabrication by micro-encapsulation of enzyme in hydrophilic synthetic latex films. Application to the amperometric determination of glucose. <i>Electrochemistry Communications</i> , <b>2000</b> , 2, 851-855	5.1	32
253	A comparative physical study of two different hydrophilic synthetic latex matrices for the construction of a glucose biosensor. <i>Talanta</i> , <b>2001</b> , 55, 889-97	6.2	32
252	Non-Enzymatic Glucose Sensing Using Carbon Quantum Dots Decorated with Copper Oxide Nanoparticles. <i>Sensors</i> , <b>2016</b> , 16,	3.8	32
251	AuNi alloy nanoparticles supported on reduced graphene oxide as highly efficient electrocatalysts for hydrogen evolution and oxygen reduction reactions. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 1424-1438	6.7	32
250	Flexible Nanoholey Patches for Antibiotic-Free Treatments of Skin Infections. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36665-36674	9.5	31
249	Insulin loaded iron magnetic nanoparticle-graphene oxide composites: synthesis, characterization and application for in vivo delivery of insulin. <i>RSC Advances</i> , <b>2014</b> , 4, 865-875	3.7	31
248	Comparison of photo- and Cu(I)-catalyzed "click" chemistries for the formation of carbohydrate SPR interfaces. <i>Analyst</i> , <b>2013</b> , 138, 805-12	5	31
247	Surface Plasmon-Enhanced Fluorescence Spectroscopy on Silver Based SPR Substrates. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22582-22589	3.8	31
246	Preparation and characterization of silver substrates coated with antimony-doped SnO <sub>2</sub> thin films for surface plasmon resonance studies. <i>Langmuir</i> , <b>2009</b> , 25, 8036-41	4	31

245	Investigation of the corrosion behavior of carbon steel coated with fluoropolymer thin films. <i>Surface and Coatings Technology</i> , <b>2011</b> , 205, 4011-4017	4.4	31
244	Polarization modulation infrared reflection absorption spectroscopy investigations of thin silica films deposited on gold. 2. Structural analysis of a 1,2-dimyristoyl-sn-glycero-3-phosphocholine bilayer. <i>Langmuir</i> , <b>2008</b> , 24, 3922-9	4	31
243	One-step synthesis of Au nanoparticle/graphene composites using tyrosine: electrocatalytic and catalytic properties. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 5473-5482	3.6	31
242	Electrochemical cardiovascular platforms: Current state of the art and beyond. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 131, 287-298	11.8	30
241	Electrophoretic Deposition of Carbon Nanofibers/Co(OH) <sub>2</sub> Nanocomposites: Application for Non-Enzymatic Glucose Sensing. <i>Electroanalysis</i> , <b>2016</b> , 28, 119-125	3	30
240	Mesoporous silica nanoparticles in recent photodynamic therapy applications. <i>Photochemical and Photobiological Sciences</i> , <b>2018</b> , 17, 1651-1674	4.2	30
239	Enterocin B3A-B3B produced by LAB collected from infant faeces: potential utilization in the food industry for <i>Listeria monocytogenes</i> biofilm management. <i>Antonie Van Leeuwenhoek</i> , <b>2017</b> , 110, 205-219	3.1	30
238	Thiol-yne click reactions on alkynyl-dopamine-modified reduced graphene oxide. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 8673-8	4.8	30
237	Photochemical immobilization of proteins and peptides on benzophenone-terminated boron-doped diamond surfaces. <i>Langmuir</i> , <b>2010</b> , 26, 1075-80	4	30
236	PM IRRAS investigation of thin silica films deposited on gold. Part 1. Theory and proof of concept. <i>Langmuir</i> , <b>2007</b> , 23, 9303-9	4	30
235	Raman imaging and Kelvin probe microscopy for the examination of the heterogeneity of doping in polycrystalline boron-doped diamond electrodes. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 23888-97	3.4	30
234	Remote fluorescence imaging of dynamic concentration profiles with micrometer resolution using a coherent optical fiber bundle. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 7202-10	7.8	30
233	Cathodic activation of titanium-supported gold nanoparticles: An efficient and stable electrocatalyst for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 6326-6341	6.7	29
232	Advancements on the molecular design of nanoantibiotics: current level of development and future challenges. <i>Molecular Systems Design and Engineering</i> , <b>2017</b> , 2, 349-369	4.6	29
231	Controlled fabrication of NiO/ZnO superhydrophobic surface on zinc substrate with corrosion and abrasion resistance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 723, 225-236	5.7	29
230	Selective Antimicrobial and Antibiofilm Disrupting Properties of Functionalized Diamond Nanoparticles Against <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> . <i>Particle and Particle Systems Characterization</i> , <b>2015</b> , 32, 822-830	3.1	29
229	Covalent linking of peptides onto oxygen-terminated boron-doped diamond surfaces. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 892-898	3.5	29
228	Interfacing Boron Doped Diamond and Biology: An Insight on Its Use for Bioanalytical Applications. <i>Electroanalysis</i> , <b>2005</b> , 17, 517-526	3	29

227	Investigating polymers and conducting metals as transduction mediators or immobilization matrices. <i>Electroanalysis</i> , <b>1995</b> , 7, 830-837	3	29
226	High-Energy Flexible Supercapacitor-Synergistic Effects of Polyhydroquinone and RuO <sub>2</sub> ·xH <sub>2</sub> O with Microsized, Few-Layered, Self-Supportive Exfoliated-Graphite Sheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18349-18360	9.5	28
225	Molecular monolayers on silicon as substrates for biosensors. <i>Bioelectrochemistry</i> , <b>2010</b> , 80, 17-25	5.6	28
224	Influence of the Surface Termination of Boron-Doped Diamond Electrodes on Oxygen Reduction in Basic Medium. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, G43		28
223	Carbohydrate microarray for the detection of glycan-protein interactions using metal-enhanced fluorescence. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 3721-8	7.8	27
222	Effect of high Fe doping on Raman modes and optical properties of hydrothermally prepared SnO <sub>2</sub> nanoparticles. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 77, 31-39	4.3	27
221	Detection of carbohydrate-binding proteins by oligosaccharide-modified polypyrrole interfaces using electrochemical surface plasmon resonance. <i>Analyst, The</i> , <b>2008</b> , 133, 206-12	5	27
220	Multidimensional electrochemical imaging in materials science. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 389, 1103-20	4.4	27
219	Fabrication of a Sub-Micrometer Electrode Array: Electrochemical Characterization and Mapping of an Electroactive Species by Confocal Raman Microspectroscopy. <i>Electroanalysis</i> , <b>2003</b> , 15, 548-555	3	27
218	Efficient reduction of Cr(VI) under visible light irradiation using CuS nanostructures. <i>Arabian Journal of Chemistry</i> , <b>2019</b> , 12, 215-224	5.9	27
217	Electrophoretic Approach for the Simultaneous Deposition and Functionalization of Reduced Graphene Oxide Nanosheets with Diazonium Compounds: Application for Lysozyme Sensing in Serum. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 12823-12831	9.5	26
216	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxide-polyethyleneimine flexible nanoheaters. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 2771-2781	7.3	26
215	Toward multifunctional "clickable" diamond nanoparticles. <i>Langmuir</i> , <b>2015</b> , 31, 3926-33	4	26
214	Clicking Thiophene on Diamond Interfaces. Preparation of a Conducting Polythiophene/Diamond Hybrid Material. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17082-17086	3.8	26
213	Effect of two-step functionalization of Ti by chemical processes on protein adsorption. <i>Applied Surface Science</i> , <b>2011</b> , 257, 8196-8204	6.7	26
212	Magnetically driven superhydrophobic/superoleophilic graphene-based polyurethane sponge for highly efficient oil/water separation and demulsification. <i>Separation and Purification Technology</i> , <b>2021</b> , 274, 118931	8.3	26
211	Environmentally Friendly Reduction of Graphene Oxide Using Tyrosine for Nonenzymatic Amperometric H <sub>2</sub> O <sub>2</sub> Detection. <i>Electroanalysis</i> , <b>2014</b> , 26, 156-163	3	25
210	Plasmonic Nanoparticles Array for High-Sensitivity Sensing: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17819-17827	3.8	25



209	Amorphous silicon-carbon alloys for efficient localized surface plasmon resonance sensing. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1199-203	11.8	25
208	Scanning Electrochemical Microscopy (SECM) Based Detection of Oligonucleotide Hybridization and Simultaneous Determination of the Surface Concentration of Immobilized Oligonucleotides on Gold. <i>Electroanalysis</i> , <b>2007</b> , 19, 1258-1267	3	25
207	Preanalytical Issues and Cycle Threshold Values in SARS-CoV-2 Real-Time RT-PCR Testing: Should Test Results Include These?. <i>ACS Omega</i> , <b>2021</b> , 6, 6528-6536	3.9	25
206	Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 1509-1516	4.4	24
205	Electrochemically triggered release of human insulin from an insulin-impregnated reduced graphene oxide modified electrode. <i>Chemical Communications</i> , <b>2015</b> , 51, 14167-70	5.8	24
204	Amplified plasmonic detection of DNA hybridization using doxorubicin-capped gold particles. <i>Analyst, The</i> , <b>2014</b> , 139, 157-64	5	24
203	Photografting and patterning of oligonucleotides on benzophenone-modified boron-doped diamond. <i>Chemical Communications</i> , <b>2007</b> , 2793-5	5.8	24
202	Controlled modification of electrochemical microsystems with polyethylenimine/reduced graphene oxide using electrophoretic deposition: Sensing of dopamine levels in meat samples. <i>Talanta</i> , <b>2018</b> , 178, 432-440	6.2	23
201	Unprecedented inhibition of glycosidase-catalyzed substrate hydrolysis by nanodiamond-grafted O-glycosides. <i>RSC Advances</i> , <b>2015</b> , 5, 100568-100578	3.7	23
200	Nanometal plasmonpolaritons. <i>Surface Science Reports</i> , <b>2013</b> , 68, 1-67	12.9	23
199	Development of a metal-chelated plasmonic interface for the linking of His-peptides with a droplet-based surface plasmon resonance read-off scheme. <i>Langmuir</i> , <b>2011</b> , 27, 5498-505	4	23
198	Covalent modification of boron-doped diamond electrodes with an imidazolium-based ionic liquid. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 1582-1587	6.7	23
197	Preparation of Electrochemical and Surface Plasmon Resonance Active Interfaces: Deposition of Indium Tin Oxide on Silver Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 10883-10888	3.8	23
196	The use of optical fiber bundles combined with electrochemistry for chemical imaging. <i>ChemPhysChem</i> , <b>2003</b> , 4, 186-92	3.2	23
195	Poly(dicarbazole-N-hydroxysuccinimide) film: a new polymer for the reagentless grafting of enzymes and redox mediators. <i>Electrochemistry Communications</i> , <b>2000</b> , 2, 827-831	5.1	23
194	Reduced graphene oxide-based field effect transistors for the detection of E7 protein of human papillomavirus in saliva. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 779-787	4.4	23
193	Assessment of the Probiotic Properties and Bacteriocinogenic Potential of MZF16 Isolated From Artisanal Tunisian Meat "Dried Ossban". <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2607	5.7	23
192	Dual-Ligand Fe-Metal Organic Framework Based Robust High Capacity Li Ion Battery Anode and Its Use in a Flexible Battery Format for Electro-Thermal Heating. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4450-4457 <sup>6.1</sup> <sup>22</sup>	6.1	22



191	Reduced graphene oxide nanosheets decorated with AuPd bimetallic nanoparticles: a multifunctional material for photothermal therapy of cancer cells. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 8366-8374	7.3	22
190	Dielectric coated plasmonic interfaces: their interest for sensitive sensing of analyte-ligand interactions. <i>Reviews in Analytical Chemistry</i> , <b>2012</b> , 31,	2.3	22
189	Preparation and characterization of antimony-doped SnO <sub>2</sub> thin films on gold and silver substrates for electrochemical and surface plasmon resonance studies. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1041-1043	5.1	22
188	Near-Field and Far-Field Sensitivities of LSPR Sensors. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9470-9476	3.76	21
187	Boronic acid-modified lipid nanocapsules: a novel platform for the highly efficient inhibition of hepatitis C viral entry. <i>Nanoscale</i> , <b>2015</b> , 7, 1392-402	7.7	21
186	Ultrasmall CuS-BSA-Cu(PO) nanozyme for highly efficient colorimetric sensing of HO and glucose in contact lens care solutions and human serum. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1109, 78-89	6.6	21
185	A Prussian blue/carbon dot nanocomposite as an efficient visible light active photocatalyst for C-H activation of amines. <i>Photochemical and Photobiological Sciences</i> , <b>2016</b> , 15, 1282-1288	4.2	21
184	Investigation of the corrosion protection of SiO <sub>x</sub> -like oxide films deposited by plasma-enhanced chemical vapor deposition onto carbon steel. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 8921-8927	6.7	21
183	Insulin impregnated reduced graphene oxide/Ni(OH) <sub>2</sub> thin films for electrochemical insulin release and glucose sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 237, 693-701	8.5	21
182	Hydrothermal synthesis of ZTO/graphene nanocomposite with excellent photocatalytic activity under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 473, 66-74	9.3	21
181	Aluminum oxide nanowires as safe and effective adjuvants for next-generation vaccines. <i>Materials Today</i> , <b>2019</b> , 22, 58-66	21.8	21
180	Fabrication of superhydrophobic/superoleophilic functionalized reduced graphene oxide/polydopamine/PFDT membrane for efficient oil/water separation. <i>Separation and Purification Technology</i> , <b>2020</b> , 236, 116240	8.3	21
179	Revealing the structure and functionality of graphene oxide and reduced graphene oxide/pyrene carboxylic acid interfaces by correlative spectral and imaging analysis. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 16038-16046	3.6	20
178	Highly effective photodynamic inactivation of E. coli using gold nanorods/SiO <sub>2</sub> core-shell nanostructures with embedded verteporfin. <i>Chemical Communications</i> , <b>2015</b> , 51, 16365-8	5.8	20
177	Diamond nanowires decorated with metallic nanoparticles: A novel electrical interface for the immobilization of histidinylated biomolecules. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 4-8	6.7	20
176	Electrochemical grafting of poly(3-hexylthiophene) on porous silicon for gas sensing. <i>Surface and Interface Analysis</i> , <b>2010</b> , 42, 1041-1045	1.5	20
175	Functionalized MoS <sub>2</sub> /polyurethane sponge: An efficient scavenger for oil in water. <i>Separation and Purification Technology</i> , <b>2020</b> , 238, 116420	8.3	20
174	Efficient detoxification of Cr(VI)-containing effluents by sequential adsorption and reduction using a novel cysteine-doped PANi@faujasite composite: Experimental study supported by advanced statistical physics prediction. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 422, 126857	12.8	20

173	MoS <sub>2</sub> /reduced graphene oxide nanocomposite for sensitive sensing of cysteamine in presence of uric acid in human plasma. <i>Materials Science and Engineering C</i> , <b>2017</b> , 73, 627-632	8.3	19
172	Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8133-8142	7.3	19
171	Localized electropolymerization on oxidized boron-doped diamond electrodes modified with pyrrolyl units. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 4924-31	3.6	19
170	Solution Processable Cu(II)macrocyclic for the Formation of Cu <sub>2</sub> O Thin Film on Indium Tin Oxide and Its Application for Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 16510-16518	3.8	19
169	Cu(0) nanoparticle-decorated functionalized reduced graphene oxide sheets as artificial peroxidase enzymes: application for colorimetric detection of Cr(VI) ions. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 1404-1414	3.6	18
168	High performance silicon nanowires/ruthenium nanoparticles micro-supercapacitors. <i>Electrochimica Acta</i> , <b>2019</b> , 311, 150-159	6.7	18
167	Fe-doped SnO <sub>2</sub> decorated reduced graphene oxide nanocomposite with enhanced visible light photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 367, 145-155	4.7	18
166	An impedimetric immunosensor based on diamond nanowires decorated with nickel nanoparticles. <i>Analyst, The</i> , <b>2014</b> , 139, 1726-31	5	18
165	Quantitative assessment of the multivalent protein-carbohydrate interactions on silicon. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 10340-9	7.8	18
164	Optical and electrochemical properties of tunable host-guest complexes linked to plasmonic interfaces. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3006		18
163	Application of thin titanium/titanium oxide layers deposited on gold for infrared reflection absorption spectroscopy: structural studies of lipid bilayers. <i>Langmuir</i> , <b>2008</b> , 24, 7378-87	4	18
162	Near-infrared light activatable hydrogels for metformin delivery. <i>Nanoscale</i> , <b>2019</b> , 11, 15810-15820	7.7	17
161	Controllable fabrication of stable superhydrophobic surfaces on iron substrates. <i>RSC Advances</i> , <b>2015</b> , 5, 40657-40667	3.7	17
160	Self-template synthesis of ZnS/Ni <sub>3</sub> S <sub>2</sub> as advanced electrode material for hybrid supercapacitors. <i>Electrochimica Acta</i> , <b>2019</b> , 328, 135065	6.7	17
159	Development of new localized surface plasmon resonance interfaces based on gold nanostructures sandwiched between tin-doped indium oxide films. <i>Langmuir</i> , <b>2010</b> , 26, 4266-73	4	17
158	Localized surface plasmon resonance of gold nanoparticle-modified chitosan films for heavy-metal ions sensing. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 350-7	1.3	17
157	Electroless chemical etching of silicon in aqueous NH <sub>4</sub> F/AgNO <sub>3</sub> /HNO <sub>3</sub> solution. <i>Applied Surface Science</i> , <b>2013</b> , 284, 894-899	6.7	16
156	Cell adhesion properties on chemically micropatterned boron-doped diamond surfaces. <i>Langmuir</i> , <b>2010</b> , 26, 15065-9	4	16

155	Dual Monitoring of Surface Reactions in Real Time by Combined Surface-Plasmon Resonance and Field-Effect Transistor Interrogation. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11709-11716	16.4	15
154	Vertically Aligned Nitrogen-Doped Carbon Nanotube Carpet Electrodes: Highly Sensitive Interfaces for the Analysis of Serum from Patients with Inflammatory Bowel Disease. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9600-9	9.5	15
153	Particle-based photodynamic therapy based on indocyanine green modified plasmonic nanostructures for inactivation of a Crohn's disease-associated Escherichia coli strain. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 2598-2605	7.3	15
152	Chemical and electrochemical grafting of polyaniline on aniline-terminated porous silicon. <i>Surface and Interface Analysis</i> , <b>2010</b> , 42, 1342-1346	1.5	15
151	Investigation of the electrocatalytic activity of boron-doped diamond electrodes modified with palladium or gold nanoparticles for oxygen reduction reaction in basic medium. <i>Comptes Rendus Chimie</i> , <b>2008</b> , 11, 1004-1009	2.7	15
150	Entrapment of uropathogenic E. coli cells into ultra-thin sol-gel matrices on gold thin films: A low cost alternative for impedimetric bacteria sensing. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 124-125, 161-166	11.8	15
149	Simultaneous photocatalytic Cr(VI) reduction and phenol degradation over copper sulphide-reduced graphene oxide nanocomposite under visible light irradiation: Performance and reaction mechanism. <i>Chemosphere</i> , <b>2021</b> , 268, 128798	8.4	15
148	Exploring Light-Sensitive Nanocarriers for Simultaneous Triggered Antibiotic Release and Disruption of Biofilms Upon Generation of Laser-Induced Vapor Nanobubbles. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	14
147	Infrared Photothermal Therapy with Water Soluble Reduced Graphene Oxide: Shape, Size and Reduction Degree Effects. <i>Nano LIFE</i> , <b>2015</b> , 05, 1540002	0.9	14
146	Graphene-based nanomaterials in innovative electrochemistry. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 10, 24-30	7.2	14
145	Electro-organic reactions. Part 46. Diels-Alder trapping of o-quinodimethane generated by redox-mediated cathodic reduction of p-dibromo-o-xylene in the presence of hindered dienophiles. <i>Tetrahedron</i> , <b>1996</b> , 52, 7771-7778	2.4	14
144	Electrothermal patches driving the transdermal delivery of insulin. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 663-670	10.8	14
143	Catalytic activity of silicon nanowires decorated with silver and copper nanoparticles. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 014011	1.8	13
142	Plasmon waveguide resonance for sensing glycan-lectin interactions. <i>Analytica Chimica Acta</i> , <b>2015</b> , 873, 71-9	6.6	13
141	Surface Plasmon Resonance (SPR) for the Evaluation of Shear-Force-Dependent Bacterial Adhesion. <i>Biosensors</i> , <b>2015</b> , 5, 276-87	5.9	13
140	Aluminum based metal-organic framework integrated with reduced graphene oxide for improved supercapacitive performance. <i>Electrochimica Acta</i> , <b>2020</b> , 353, 136609	6.7	12
139	High performance flexible hybrid supercapacitors based on nickel hydroxide deposited on copper oxide supported by copper foam for a sunlight-powered rechargeable energy storage system. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 579, 520-530	9.3	12
138	Plasmonic properties of silver nanostructures coated with an amorphous silicon-carbon alloy and their applications for sensitive sensing of DNA hybridization. <i>Analyst, The</i> , <b>2011</b> , 136, 1859-66	5	12

137	Plasmon-Driven Electrochemical Methanol Oxidation on Gold Nanohole Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50426-50432	9.5	12
136	In Situ Synthesis of Co <sub>3</sub> O <sub>4</sub> /CoFe <sub>2</sub> O <sub>4</sub> Derived from a Metal-Organic Framework on Nickel Foam: High-Performance Electrocatalyst for Water Oxidation. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2951-2959	6.1	12
135	Green Synthesis of Reduced Graphene Oxide-Silver Nanoparticles Using Environmentally Friendly L-arginine for H <sub>2</sub> O <sub>2</sub> Detection. <i>ECS Journal of Solid State Science and Technology</i> , <b>2016</b> , 5, M3060-M3066	2	12
134	Colorimetric sensing of dopamine in beef meat using copper sulfide encapsulated within bovine serum albumin functionalized with copper phosphate (CuS-BSA-Cu(PO)) nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 582, 732-740	9.3	12
133	The impact of chemical engineering and technological advances on managing diabetes: present and future concepts. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 2102-2146	58.5	12
132	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 1: Lysozyme aggregation at pH 2 and 7.4. <i>Electrochimica Acta</i> , <b>2017</b> , 254, 375-383	6.7	11
131	Surface Functionalization with Polyethylene Glycol and Polyethyleneimine Improves the Performance of Graphene-Based Materials for Safe and Efficient Intracellular Delivery by Laser-Induced Photoporation. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	11
130	Interaction of cellulose and nitrodopamine coated superparamagnetic iron oxide nanoparticles with alpha-lactalbumin.. <i>RSC Advances</i> , <b>2020</b> , 10, 9704-9716	3.7	11
129	Fabrication of stable homogeneous superhydrophobic HDPE/graphene oxide surfaces on zinc substrates. <i>RSC Advances</i> , <b>2016</b> , 6, 29823-29829	3.7	11
128	Microelectrode Arrays <b>2007</b> , 391-428		11
127	An 'on-demand' photothermal antibiotic release cryogel patch: evaluation of efficacy on an ex vivo model for skin wound infection. <i>Biomaterials Science</i> , <b>2020</b> , 8, 5911-5919	7.4	11
126	On demand electrochemical release of drugs from porous reduced graphene oxide modified flexible electrodes. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 6557-6565	7.3	10
125	High photocatalytic activity of plasmonic Ag@AgCl/Zn <sub>2</sub> SnO <sub>4</sub> nanocomposites synthesized using hydrothermal method. <i>RSC Advances</i> , <b>2016</b> , 6, 80310-80319	3.7	10
124	Affinity of Glycan-Modified Nanodiamonds towards Lectins and Uropathogenic Escherichia Coli. <i>ChemNanoMat</i> , <b>2016</b> , 2, 307-314	3.5	10
123	Fluorescent molecular nanocrystals anchored in sol-gel thin films: a label-free signalization function for biosensing applications. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 2416	3.6	10
122	Solvent-free chemical functionalization of hydrogen-terminated boron-doped diamond electrodes with diazonium salts in ionic liquids. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1394-1398	3.5	10
121	Wet-chemical approach for the halogenation of hydrogenated boron-doped diamond electrodes. <i>Chemical Communications</i> , <b>2008</b> , 6294-6	5.8	10
120	Preparation and characterization of thin organosilicon films deposited on SPR chip. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 3910-3915	6.7	10

119	Electrochemical investigation of the influence of thin SiO <sub>x</sub> films deposited on gold on charge transfer characteristics. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 7908-7914	6.7	10
118	Evaporation behavior of PEGylated graphene oxide nanofluid droplets on heated substrate. <i>International Journal of Thermal Sciences</i> , <b>2019</b> , 135, 445-458	4.1	10
117	CoS <sub>2</sub> Nanoparticles Supported on rGO, g-C <sub>3</sub> N <sub>4</sub> , BCN, MoS <sub>2</sub> , and WS <sub>2</sub> Two-Dimensional Nanosheets with Excellent Electrocatalytic Performance for Overall Water Splitting: Electrochemical Studies and DFT Calculations. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1269-1285	6.1	10
116	Characterization of peptide attachment on silicon nanowires by X-ray photoelectron spectroscopy and mass spectrometry. <i>Analyst, The</i> , <b>2017</b> , 142, 969-978	5	9
115	Plasmon-Induced Electrocatalysis with Multi-Component Nanostructures. <i>Materials</i> , <b>2018</b> , 12,	3.5	9
114	Excellent photocatalytic reduction of nitroarenes to aminoarenes by BiVO <sub>4</sub> nanoparticles grafted on reduced graphene oxide (rGO/BiVO <sub>4</sub> ). <i>Applied Organometallic Chemistry</i> , <b>2019</b> , 33, e5059	3.1	9
113	Photothermally Active Cryogel Devices for Effective Release of Antimicrobial Peptides: On-Demand Treatment of Infections. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 56805-56814	9.5	9
112	Graphene Oxide Nanosheets for Localized Hyperthermia-Physicochemical Characterization, Biocompatibility, and Induction of Tumor Cell Death. <i>Cells</i> , <b>2020</b> , 9,	7.9	9
111	High-performance flexible hybrid supercapacitor based on NiAl layered double hydroxide as a positive electrode and nitrogen-doped reduced graphene oxide as a negative electrode. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136664	6.7	9
110	Oligomannose-Rich Membranes of Dying Intestinal Epithelial Cells Promote Host Colonization by Adherent-Invasive. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 742	5.7	9
109	Dopamine-functionalized cyclodextrins: modification of reduced graphene oxide based electrodes and sensing of folic acid in human serum. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 5149-5157	4.4	9
108	Electro-oxidative nanopatterning of silane monolayers on boron-doped diamond electrodes. <i>Nanotechnology</i> , <b>2009</b> , 20, 075302	3.4	9
107	Experimental and theoretical investigations on the adsorption of 2'-deoxyguanosine oxidation products at oxidized boron-doped diamond electrodes. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 3741-6	7.8	9
106	Electro-organic reactions. Part 50. Quinodimethane chemistry. Part 1. Electrochemical generation and characterisation of p-quinodimethanes. <i>Perkin Transactions II RSC</i> , <b>2000</b> , 669-675		9
105	Differentiation of Crohn's Disease-Associated Isolates from Other Pathogenic Escherichia coli by Fimbrial Adhesion under Shear Force. <i>Biology</i> , <b>2016</b> , 5,	4.9	9
104	Improved photodynamic effect through encapsulation of two photosensitizers in lipid nanocapsules. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 5949-5963	7.3	9
103	A mask-based diagnostic platform for point-of-care screening of Covid-19. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 192, 113486	11.8	9
102	Atomic Force Microscopic and Raman Investigation of Boron-Doped Diamond Nanowire Electrodes and Their Activity toward Oxygen Reduction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 3397-3403	3.8	8



101	Visible light assisted hydrogen generation from complete decomposition of hydrous hydrazine using rhodium modified TiO photocatalysts. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 1036-1042	4.2	8
100	Click Chemistry on Gold Electrodes Modified with Reduced Graphene Oxide by Electrophoretic Deposition. <i>Surfaces</i> , <b>2019</b> , 2, 193-204	2.9	8
99	Rapid and sensitive identification of uropathogenic Escherichia coli using a surface-enhanced-Raman-scattering-based biochip. <i>Talanta</i> , <b>2020</b> , 219, 121174	6.2	8
98	Enhanced electrocatalytic hydrogen evolution on a plasmonic electrode: the importance of the Ti/TiO <sub>2</sub> adhesion layer. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13980-13986	13	8
97	Investigation of morphology, reflectance and photocatalytic activity of nanostructured silicon surfaces. <i>Microelectronic Engineering</i> , <b>2016</b> , 159, 94-101	2.5	8
96	Diamond nanowires modified with poly[3-(pyrrolyl)carboxylic acid] for the immobilization of histidine-tagged peptides. <i>Analyst, The</i> , <b>2014</b> , 139, 4343-9	5	8
95	Decoration of silicon nanostructures with copper particles for simultaneous selective capture and mass spectrometry detection of His-tagged model peptide. <i>Analyst, The</i> , <b>2014</b> , 139, 5155-63	5	8
94	Wilkinson-Type Immobilized Catalyst on Diamond Nanoparticles for Alkene Reduction. <i>ChemCatChem</i> , <b>2017</b> , 9, 432-439	5.2	8
93	Characterization of single transition metal oxide nanorods by combining atomic force microscopy and polarized micro-Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2011</b> , 514, 128-133	2.5	8
92	Using scanning electrochemical microscopy to determine the doping level and the flatband potential of boron-doped diamond electrodes. <i>ChemPhysChem</i> , <b>2006</b> , 7, 89-93	3.2	8
91	Electrochemical Impedance Spectroscopy of Dense Silica and Porous Silicon Oxycarbide. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, G63		8
90	Plasmon-enhanced electrocatalytic oxygen reduction in alkaline media on gold nanohole electrodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10395-10401	13	7
89	Magnetically Reusable MnFe <sub>2</sub> O <sub>4</sub> Nanoparticles Modified with Oxo-Peroxo Mo (VI) Schiff-Base Complexes: A High Efficiency Catalyst for Olefin Epoxidation under Solvent-Free Conditions. <i>ChemistrySelect</i> , <b>2018</b> , 3, 2877-2881	1.8	7
88	Light-Triggered Release of Biomolecules from Diamond Nanowire Electrodes. <i>Langmuir</i> , <b>2016</b> , 32, 6515-23	4.3	7
87	Substance P enhances lactic acid and tyramine production in V583 and promotes its cytotoxic effect on intestinal Caco-2/TC7 cells. <i>Gut Pathogens</i> , <b>2017</b> , 9, 20	5.4	7
86	Graphene-based high-performance surface plasmon resonance biosensors <b>2012</b> ,		7
85	Electro-organic reactions. Part 54. Quinodimethane chemistry. Part 2. Electrogeneration and reactivity of o-quinodimethanes. <i>Perkin Transactions II RSC</i> , <b>2001</b> , 153-163		7
84	Preparation of boron-doped diamond nanospikes on porous Ti substrate for high-performance supercapacitors. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136649	6.7	7



83	Formation of a Highly Stable and Nontoxic Protein Corona upon Interaction of Human $\beta$ -Acid Glycoprotein (AGP) with Citrate-Stabilized Silver Nanoparticles. <i>Langmuir</i> , <b>2020</b> , 36, 10321-10330	4	7
82	Colorimetric detection of chromium (VI) ion using poly(N-phenylglycine) nanoparticles acting as a peroxidase mimetic catalyst. <i>Talanta</i> , <b>2021</b> , 226, 122082	6.2	7
81	SERS characterization of aggregated and isolated bacteria deposited on silver-based substrates. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 1417-1428	4.4	7
80	The role of the surface ligand on the performance of electrochemical SARS-CoV-2 antigen biosensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 1	4.4	7
79	Interaction of Human $\beta$ -Acid Glycoprotein (AGP) with Citrate-Stabilized Gold Nanoparticles: Formation of Unexpectedly Strong Binding Events. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 5073-5083 <sup>3.8</sup>		6
78	Magneto-Optical Nanostructures for Viral Sensing. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	6
77	Characterization of post-copper CMP surface with scanning probe microscopy: Part II: Surface potential measurements with scanning Kelvin probe force microscopy. <i>Microelectronic Engineering</i> , <b>2006</b> , 83, 2355-2358	2.5	6
76	Mapping concentration profiles within the diffusion layer of an electrode: application to redox catalysis. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 2933-9	4.8	6
75	Modulation of localized surface plasmon resonances of a silver nanoparticle array upon the presence of MoS <sub>2</sub> coatings or underlying thin films. <i>Optik</i> , <b>2019</b> , 179, 819-827	2.5	6
74	Magnetic MnFe <sub>2</sub> O <sub>4</sub> Core-shell nanoparticles coated with antibiotics for the ablation of pathogens. <i>Chemical Papers</i> , <b>2021</b> , 75, 377-387	1.9	6
73	Search of Extremely Sensitive Near-Infrared Plasmonic Interfaces: A Theoretical Study. <i>Plasmonics</i> , <b>2013</b> , 8, 1691-1698	2.4	5
72	Localized surface plasmon resonance interfaces coated with poly[3-(pyrrolyl)carboxylic acid] for histidine-tagged peptide sensing. <i>Analyst, The</i> , <b>2011</b> , 136, 4211-6	5	5
71	Preparation and reactivity of carboxylic acid-terminated boron-doped diamond electrodes. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 959-964	6.7	5
70	Characterization of post-copper CMP surfaces with scanning probe microscopy: Part 1: Surface leakage measurement with conductive atomic force microscopy. <i>Applied Surface Science</i> , <b>2006</b> , 252, 7760-7765 <sup>5</sup>	6.7	5
69	Enhanced electrocatalytic activity of PtRu/nitrogen and sulphur co-doped crumbled graphene in acid and alkaline media. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 590, 154-163	9.3	5
68	Controlled covalent functionalization of a graphene-channel of a field effect transistor as an ideal platform for (bio)sensing applications. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 819-829	10.8	5
67	Manganese Ferrite Nanoparticles Modified by Mo(VI) Complex: Highly Efficient Catalyst for Sulfides and Olefins Oxidation Under Solvent-less Condition. <i>ChemistrySelect</i> , <b>2019</b> , 4, 7116-7122	1.8	4
66	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation. <i>Electrochimica Acta</i> , <b>2018</b> , 266, 364-372	6.7	4

65	Graphene-based bioelectrochemistry and bioelectronics: A concept for the future?. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 12, 141-147	7.2	4
64	Investigation of the corrosion behaviour of steel coated with amorphous silicon carbon alloys. <i>Surface and Coatings Technology</i> , <b>2012</b> , 206, 3626-3631	4.4	4
63	Room-Temperature Wet Chemical Synthesis of Au NPs/TiH/Nanocarved Ti Self-Supported Electrocatalysts for Highly Efficient H <sub>2</sub> Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30115-30124	9.5	4
62	A graphene/hemin hybrid material as an efficient green catalyst for stereoselective olefination of aldehydes. <i>RSC Advances</i> , <b>2015</b> , 5, 100011-100017	3.7	4
61	Preparation and photocatalytic properties of quartz/gold nanostructures/TiO <sub>2</sub> lamellar structures. <i>RSC Advances</i> , <b>2012</b> , 2, 12482	3.7	4
60	Microelectrode systems for the study of photochemical processes in solution. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 646, 60-67	4.1	4
59	Electronic biosensors based on graphene FETs. <i>Methods in Enzymology</i> , <b>2020</b> , 642, 371-401	1.7	4
58	Aryne cycloaddition reaction as a facile and mild modification method for design of electrode materials for high-performance symmetric supercapacitor. <i>Electrochimica Acta</i> , <b>2021</b> , 369, 137667	6.7	4
57	Copper-based metal-organic framework decorated by CuO hair-like nanostructures: Electrocatalyst for oxygen evolution reaction. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5871	3.1	3
56	A quantitative method to discriminate between non-specific and specific lectin-glycan interactions on silicon-modified surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 464, 198-205	9.3	3
55	Chapter 7: Electrochemistry of graphene: The current state of the art. <i>SPR Electrochemistry</i> , 211-242		3
54	Functionalization of diamond surfaces for medical applications <b>2013</b> , 25-47		3
53	The holy grail of pyrene-based surface ligands on the sensitivity of graphene-based field effect transistors. <i>Sensors &amp; Diagnostics</i> ,		3
52	Colorimetric assay for the detection of dopamine using bismuth ferrite oxide (BiFeO <sub>3</sub> ) nanoparticles as an efficient peroxidase-mimic nanozyme.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 613, 384-395	9.3	3
51	Interaction of 4 allotropic modifications of carbon nanoparticles with living tissues. <i>Ukrainian Biochemical Journal</i> , <b>2019</b> , 91, 41-50	0.7	3
50	Development of antibodies to pan-coronavirus spike peptides in convalescent COVID-19 patients		3
49	Electrochemical, theoretical and surface physicochemical studies of the alkaline copper corrosion inhibition by newly synthesized molecular complexes of benzenediamine and tetraamine with $\text{Cu}^{2+}$ acceptor. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 320, 114386	6	3
48	Cathodic pre-polarization studies on the carbon felt/KOH interface: An efficient metal-free electrocatalyst for hydrogen generation. <i>Electrochimica Acta</i> , <b>2021</b> , 375, 137981	6.7	3

47	Non-enzymatic electrochemical cholesterol sensor based on strong host-guest interactions with a polymer of intrinsic microporosity (PIM) with DFT study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 6523-6533	4.4	3
46	Cobalt sulfide-reduced graphene oxide: An efficient catalyst for the degradation of rhodamine B and pentachlorophenol using peroxymonosulfate. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106018	6.8	3
45	Graphene/gold Nanoparticles for Electrochemical Sensing <b>2017</b> , 139-172		2
44	Carbon Nanofibers for Electroanalysis <b>2017</b> , 27-53		2
43	Mucin modified SPR interfaces for studying the effect of flow on pathogen binding to Atlantic salmon mucins. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 146, 111736	11.8	2
42	Electrochemical biosensing with odorant binding proteins. <i>Methods in Enzymology</i> , <b>2020</b> , 642, 345-369	1.7	2
41	pH-responsive phenylboronic acid-modified diamond particles: Switch in carbohydrate capture ability triggers modulation of physicochemical and lectin-recognition properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 2124-2130	1.6	2
40	Graphene-Based Photocatalytic Materials for Conversion of Carbon Dioxide to Solar Fuels <b>2018</b> , 396-412		2
39	Diamond Nanowires: A Recent Success Story for Biosensing. <i>Springer Series on Chemical Sensors and Biosensors</i> , <b>2017</b> , 1-18	2	2
38	Theoretical and experimental study of the short and long range sensing using gold nanostructures <b>2010</b> ,		2
37	Innovative transdermal delivery of insulin using gelatin methacrylate-based microneedle patches in mice and mini-pigs.. <i>Nanoscale Horizons</i> , <b>2022</b> ,	10.8	2
36	[1+1] Copper(II) macrocyclic Schiff base complex on rGO as a photocatalyst for reduction of nitroaromatics compounds under visible-light irradiation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 328, 115338 <sup>6</sup>		2
35	Modification of MnFe <sub>2</sub> O <sub>4</sub> surface by Mo (VI) pyridylimine complex as an efficient nanocatalyst for (ep)oxidation of alkenes and sulfides. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 330, 115690	6	2
34	Carbon quantum dots as a dual platform for the inhibition and light-based destruction of collagen fibers: implications for the treatment of eye floaters. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 449-461	10.8	2
33	Rapid Generation of Coronaviral Immunity Using Recombinant Peptide Modified Nanodiamonds. <i>Pathogens</i> , <b>2021</b> , 10,	4.5	2
32	Flower-like Nitrogen-co-doped MoS <sub>2</sub> @RGO Composites with Excellent Stability for Supercapacitors. <i>ChemElectroChem</i> , <b>2021</b> , 8, 2903-2911	4.3	2
31	The importance of the shape of Cu <sub>2</sub> O nanocrystals on plasmon-enhanced oxygen evolution reaction in alkaline media. <i>Electrochimica Acta</i> , <b>2021</b> , 390, 138810	6.7	2
30	Silicon nanowire-hydrogenated TiO <sub>2</sub> core-shell arrays for stable electrochemical micro-capacitors. <i>Electrochimica Acta</i> , <b>2021</b> , 396, 139198	6.7	2

29	SARS-CoV-2 detection using a nanobody-functionalized voltammetric device. <i>Communications Medicine</i> , <b>2022</b> , 2,		2
28	Aqueous medium-induced micropore formation in plasma polymerized polystyrene: an effective route to inhibit bacteria adhesion. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 3674-3683	7.3	1
27	Carbon-Based Nanostructures for Matrix-Free Mass Spectrometry. <i>Carbon Nanostructures</i> , <b>2016</b> , 331-356.	6.6	1
26	Raman and FTIR Spectroscopy as Valuable Tools for the Characterization of Graphene-Based Materials <b>2016</b> , 235-253		1
25	Growth mechanism investigation of SnO <sub>2</sub> thin films deposited by aerosol pyrolysis for biosensor applications: Importance of the thickness. <i>Thin Solid Films</i> , <b>2012</b> , 520, 3878-3883	2.2	1
24	Clicking ferrocene to halogenated boron-doped diamond surfaces. <i>Rare Metals</i> , <b>2013</b> , 32, 100-104	5.5	1
23	Nanoscale Architectures for Smart Bio-Interfaces: Advances and Challenges <b>2011</b> ,		1
22	Electro-Organic Reactions. Part 48: Pathways for Carbon-Carbon Bond Formation: The Redox Chemistry of Quinodimethanes and of Alkenyl-Substituted Heteroaromatics <b>1998</b> , 259-266		1
21	Highly performing graphene-based field effect transistor for the differentiation between mild-moderate-severe myocardial injury. <i>Nano Today</i> , <b>2022</b> , 43, 101391	17.9	1
20	The Potential of Developing Pan-Coronaviral Antibodies to Spike Peptides in Convalescent COVID-19 Patients. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , <b>2021</b> , 69, 5	4	1
19	Near-Infrared Photothermal Heating With Gold Nanostructures <b>2018</b> , 500-510		1
18	Electrochemical and electronic detection of biomarkers in serum: a systematic comparison using aptamer-functionalized surfaces. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 1	4.4	1
17	Effective PDT/PTT dual-modal phototherapeutic killing of bacteria by using poly(N-phenylglycine) nanoparticles.. <i>Mikrochimica Acta</i> , <b>2022</b> , 189, 150	5.8	1
16	State of the Art of Chemosensors in a Biomedical Context. <i>Chemosensors</i> , <b>2022</b> , 10, 199	4	1
15	Rhodamine B nanocrystals: elaborations, characterizations and functionalizations for biosensing applications. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 72, 179-188	2.3	0
14	Surface modification of carbon dots with tetraalkylammonium moieties for fine tuning their antibacterial activity.. <i>Materials Science and Engineering C</i> , <b>2022</b> , 112697	8.3	0
13	Adsorption-reduction of Cr(VI) onto unmodified and phytic acid-modified carob waste: Kinetic and isotherm modeling.. <i>Chemosphere</i> , <b>2022</b> , 134188	8.4	0
12	Graphene-Microbial Interactions <b>2017</b> , 289-314		

- 11 Plasmon-induced photocatalytic transformations **2020**, 249-275
- 10 Nanoscale materials for the treatment of water contaminated by bacteria and viruses **2020**, 261-305
- 9 Stimuli-Responsive Graphene-Based Matrices for Smart Therapeutics **2019**, 507-533
- 8 Micro- and Nano-structured Diamond in Electrochemistry **2017**, 197-226
- 7 Different Strategies for Glycan Immobilization onto Plasmonic Interfaces **2015**, 35-59
- 6 Use of experimental design to empirically model atmospheric corrosion of galvanised steel. *Journal of Applied Electrochemistry*, **2008**, 38, 321-327 2.6
- 5 High-Quality Carbon Nanotubes and Graphene Produced from MOFs for Supercapacitor Application **2020**, 87-117
- 4 Plasmonic Methods for the Study of Carbohydrate Interactions 53-77
- 3 Plasmonic Photothermal Therapy with Gold Nanorods/Reduced Graphene Oxide Core/Shell Nanocomposites **2016**, 3287-3294
- 2 Metal Oxide-Graphene Nanocomposites. *Advances in Chemical and Materials Engineering Book Series*, **2014**, 196-225 0.2
- 1 Preparation of nanowires on free-standing boron-doped diamond films for high performance micro-capacitors. *Electrochimica Acta*, **2022**, 421, 140500 6.7