

Joanna Niedzińska-Jönsson

List of Publications by Year in descending order

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112
papers

2,899
citations

136950

32
h-index

206112

48
g-index

112
all docs

112
docs citations

112
times ranked

3865
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction and Functionalization of Graphene Oxide Sheets Using Biomimetic Dopamine Derivatives in One Step. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1016-1020.	8.0	182
2	Preparation of reduced graphene oxideâ€“Ni(OH) ₂ composites by electrophoretic deposition: application for non-enzymatic glucose sensing. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5525-5533.	10.3	128
3	Lysozyme detection on aptamer functionalized graphene-coated SPR interfaces. <i>Biosensors and Bioelectronics</i> , 2013, 50, 239-243.	10.1	125
4	Recent advances in bacteriophage-based methods for bacteria detection. <i>Drug Discovery Today</i> , 2018, 23, 448-455.	6.4	101
5	Hierarchical 3-dimensional nickelâ€“iron nanosheet arrays on carbon fiber paper as a novel electrode for non-enzymatic glucose sensing. <i>Nanoscale</i> , 2016, 8, 843-855.	5.6	88
6	Potentiometric and spectroscopic characterization of anion selective electrodes based on metal(III) porphyrin ionophores in polyurethane membranes. <i>Analytica Chimica Acta</i> , 2001, 432, 67-78.	5.4	79
7	Long-period fiber grating sensor for detection of viruses. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 32-38.	7.8	79
8	Antibody Modified Gold Nanoparticles for Fast and Selective, Colorimetric T7 Bacteriophage Detection. <i>Bioconjugate Chemistry</i> , 2014, 25, 644-648.	3.6	69
9	Hydrophilic carbon nanoparticle-laccase thin film electrode for mediatorless dioxygen reduction. <i>Electrochimica Acta</i> , 2009, 54, 4620-4625.	5.2	66
10	Label-Free Detection of Lectins on Carbohydrate-Modified Boron-Doped Diamond Surfaces. <i>Analytical Chemistry</i> , 2010, 82, 8203-8210.	6.5	66
11	Sensitive sugar detection using 4-aminophenylboronic acid modified graphene. <i>Biosensors and Bioelectronics</i> , 2013, 50, 331-337.	10.1	64
12	Preparation of graphene/tetrathiafulvalene nanocomposite switchable surfaces. <i>Chemical Communications</i> , 2012, 48, 1221-1223.	4.1	59
13	Surface-enhanced Raman spectroscopy introduced into the International Standard Organization (ISO) regulations as an alternative method for detection and identification of pathogens in the food industry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1555-1567.	3.7	49
14	Ultrasensitive tantalum oxide nano-coated long-period gratings for detection of various biological targets. <i>Biosensors and Bioelectronics</i> , 2019, 133, 8-15.	10.1	48
15	Preparation of a Responsive Carbohydrate-Coated Biointerface Based on Graphene/Azido-Terminated Tetrathiafulvalene Nanohybrid Material. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5386-5393.	8.0	44
16	Short- and Long-Range Sensing Using Plasmonic Nanostructures: Experimental and Theoretical Studies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15921-15927.	3.1	43
17	Titanium oxide thin films obtained with physical and chemical vapour deposition methods for optical biosensing purposes. <i>Biosensors and Bioelectronics</i> , 2017, 93, 102-109.	10.1	41
18	Simultaneous optical and electrochemical label-free biosensing with ITO-coated lossy-mode resonance sensor. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112050.	10.1	40

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19	Bacteriophage-Based Bioconjugates as a Flow Cytometry Probe for Fast Bacteria Detection. <i>Bioconjugate Chemistry</i> , 2017, 28, 419-425.	3.6	38
20	Recent applications of bacteriophage-based electrodes: A mini-review. <i>Electrochemistry Communications</i> , 2019, 99, 11-15.	4.7	38
21	Ion transfer processes at the room temperature ionic liquid aqueous solution interface supported by a hydrophobic carbon nanofibers @ silica composite film. <i>Journal of Electroanalytical Chemistry</i> , 2006, 587, 133-139.	3.8	37
22	Sensitivity of Plasmonic Nanostructures Coated with Thin Oxide Films for Refractive Index Sensing: Experimental and Theoretical Investigations. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11769-11775.	3.1	37
23	Surface Plasmon Resonance on Gold and Silver Films Coated with Thin Layers of Amorphous Silicon@Carbon Alloys. <i>Langmuir</i> , 2010, 26, 6058-6065.	3.5	37
24	Sol-gel processed ionic liquid @ hydrophilic carbon nanoparticles multilayer film electrode prepared by layer-by-layer method. <i>Journal of Electroanalytical Chemistry</i> , 2008, 623, 170-176.	3.8	36
25	Thiol@Yne Click Reactions on Alkynyl@Dopamine@Modified Reduced Graphene Oxide. <i>Chemistry - A European Journal</i> , 2013, 19, 8673-8678.	3.3	36
26	Highly active 3-dimensional cobalt oxide nanostructures on the flexible carbon substrates for enzymeless glucose sensing. <i>Analyst</i> , 2017, 142, 4299-4307.	3.5	36
27	Ion transfer processes at ionic liquid based redox active drop deposited on an electrode surface. <i>Chemical Communications</i> , 2005, , 2954.	4.1	35
28	Bacteriophages in electrochemistry: A review. <i>Journal of Electroanalytical Chemistry</i> , 2016, 779, 207-219.	3.8	35
29	Introducing hydrophilic carbon nanoparticles into hydrophilic sol-gel film electrodes. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 287-293.	2.5	34
30	Development and Characterization of a Diamond-Based Localized Surface Plasmon Resonance Interface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3346-3353.	3.1	33
31	Molecular monolayers on silicon as substrates for biosensors. <i>Bioelectrochemistry</i> , 2010, 80, 17-25.	4.6	32
32	Orientation of photosystem I on graphene through cytochrome <i>c</i> ₅₅₃ leads to improvement in photocurrent generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18615-18626.	10.3	32
33	Electrodeposition of gold nanoparticles at a solid ionic liquid aqueous electrolyte three-phase junction. <i>Electrochemistry Communications</i> , 2010, 12, 1742-1745.	4.7	31
34	T7 bacteriophage induced changes of gold nanoparticle morphology: biopolymer capped gold nanoparticles as versatile probes for sensitive plasmonic biosensors. <i>Analyst</i> , 2014, 139, 3563-3571.	3.5	30
35	Optical investigations of electrochemical processes using a long-period fiber grating functionalized by indium tin oxide. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 223-229.	7.8	30
36	Characterisation of hydrophobic carbon nanofiber@silica composite film electrodes for redox liquid immobilisation. <i>Electrochimica Acta</i> , 2006, 51, 5897-5903.	5.2	29

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37	Adsorption of bacteriophages on polypropylene labware affects the reproducibility of phage research. <i>Scientific Reports</i> , 2021, 11, 7387.	3.3	29
38	Electrodeposition for preparation of efficient surface-enhanced Raman scattering-active silver nanoparticle substrates for neurotransmitter detection. <i>Electrochimica Acta</i> , 2013, 89, 284-291.	5.2	27
39	Electrode modified with ionic liquid covalently bonded to silicate matrix for accumulation of electroactive anions. <i>Electrochemistry Communications</i> , 2007, 9, 2580-2584.	4.7	26
40	Amorphous silicon-carbon alloys for efficient localized surface plasmon resonance sensing. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1199-1203.	10.1	26
41	Tungsten Carbide Nanotubes Supported Platinum Nanoparticles as a Potential Sensing Platform for Oxalic Acid. <i>Analytical Chemistry</i> , 2014, 86, 7849-7857.	6.5	25
42	Single molecule Raman spectra of porphycene isotopologues. <i>Nanoscale</i> , 2016, 8, 3337-3349.	5.6	25
43	Electrodes modified with bacteriophages and carbon nanofibres for cysteine detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 78-85.	7.8	24
44	The electrochemical ion-transfer reactivity of porphyrinato metal complexes in 4-(3-phenylpropyl)pyridine water systems. <i>New Journal of Chemistry</i> , 2006, 30, 327.	2.8	23
45	A Porous ITO Nanoparticles Modified Electrode for the Redox Liquid Immobilization. <i>Electroanalysis</i> , 2007, 19, 155-160.	2.9	23
46	Covalent modification of boron-doped diamond electrodes with an imidazolium-based ionic liquid. <i>Electrochimica Acta</i> , 2010, 55, 1582-1587.	5.2	23
47	Near-Field and Far-Field Sensitivities of LSPR Sensors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9470-9476.	3.1	23
48	Immunosensor Based on Long-Period Fiber Gratings for Detection of Viruses Causing Gastroenteritis. <i>Sensors</i> , 2020, 20, 813.	3.8	23
49	Carbon ceramic nanoparticulate film electrode prepared from oppositely charged particles by layer-by-layer approach. <i>Electrochemistry Communications</i> , 2010, 12, 83-85.	4.7	22
50	Electrodeposition of Well-Adhered Multifarious Au Particles at a Solid Toluene Aqueous Electrolyte Three-Phase Junction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22476-22485.	3.1	22
51	Selective electrochemical detection of dopamine in a microfluidic channel on carbon nanoparticulate electrodes. <i>Analyst</i> , 2014, 139, 2896.	3.5	22
52	Stabilising electrode redox liquid aqueous solution system with hydrophobic silicate film. <i>Electrochemistry Communications</i> , 2004, 6, 475-479.	4.7	21
53	Characterisation of gold electrodes modified with methyltrimethoxysilane and (3-mercaptopropyl) trimethoxysilane sol-gel processed films. <i>Journal of Electroanalytical Chemistry</i> , 2005, 578, 239-245.	3.8	21
54	Electrochemically assisted sol-gel process at a three phase junction. <i>Electrochemistry Communications</i> , 2008, 10, 1445-1447.	4.7	20

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55	Optical and electrochemical properties of tunable host-guest complexes linked to plasmonic interfaces. <i>Journal of Materials Chemistry</i> , 2011, 21, 3006.	6.7	19
56	An impedimetric immunosensor based on diamond nanowires decorated with nickel nanoparticles. <i>Analyst, The</i> , 2014, 139, 1726.	3.5	19
57	Scanning electrochemical microscopy study of ion transfer process across water/2-nitrophenyloctylether interface supported by hydrophobic carbon ceramic electrode. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 1285-1291.	2.5	18
58	Adsorption of 2,2'-Azino-Bis(3-ethylbenzothiazoline-6-sulfonate) on Multiwalled Carbon Nanotubes-Silicate Film: Application to Bioelectrocatalytic Dioxygen Reduction. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2346-2352.	0.9	18
59	Development of New Localized Surface Plasmon Resonance Interfaces Based on Gold Nanostructures Sandwiched between Tin-Doped Indium Oxide Films. <i>Langmuir</i> , 2010, 26, 4266-4273.	3.5	18
60	Stack of Nano-Films on Optical Fiber End Face for Label-Free Bio-Recognition. <i>Journal of Lightwave Technology</i> , 2016, 34, 5357-5362.	4.6	17
61	Bioelectrocatalytic dioxygen reduction at hybrid silicate-polyallylamine film with encapsulated laccase. <i>Journal of Electroanalytical Chemistry</i> , 2008, 612, 1-8.	3.8	16
62	Modified Filamentous Bacteriophage as a Scaffold for Carbon Nanofiber. <i>Bioconjugate Chemistry</i> , 2016, 27, 2900-2910.	3.6	16
63	Phage-Based Sensors in Medicine: A Review. <i>Chemosensors</i> , 2020, 8, 61.	3.6	16
64	An alternative carrier solvent for fingerprint enhancement reagents. <i>Forensic Science International</i> , 2018, 284, 53-64.	2.2	15
65	Hydrophobic silica sol-gel films for biphasic electrodes and porotrodes. <i>Analyst, The</i> , 2004, 129, 1181-1185.	3.5	14
66	Gold three dimensional film electrode prepared from oppositely charged nanoparticles. <i>Electrochemistry Communications</i> , 2011, 13, 1170-1173.	4.7	14
67	Functional fluorine-doped tin oxide coating for opto-electrochemical label-free biosensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132145.	7.8	14
68	Changing the direction of ion transfer across o-nitrophenyloctylether-water interface coupled to electrochemical redox reaction. <i>Electrochemistry Communications</i> , 2006, 8, 941-945.	4.7	13
69	The Effect of Ionic Liquid Covalent Bonding to Sol-Gel Processed Film on Ion Accumulation and Transfer. <i>Electroanalysis</i> , 2009, 21, 701-706.	2.9	13
70	One-step electrodeposition of carbon-silicate sponge assisted by a three-phase junction for efficient bioelectrocatalysis. <i>Electrochemistry Communications</i> , 2011, 13, 566-569.	4.7	13
71	Click chemistry modification of glassy carbon electrode with gold nanoparticles for electroactive ion discrimination. <i>Electrochemistry Communications</i> , 2014, 48, 73-76.	4.7	13
72	Electrosynthesis of thin sol-gel films at a three-phase junction. <i>Electrochimica Acta</i> , 2011, 56, 3311-3316.	5.2	12

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73	Interactions of bacteriophage T4 adhesin with selected lipopolysaccharides studied using atomic force microscopy. <i>Scientific Reports</i> , 2018, 8, 10935.	3.3	12
74	Optical Properties of Submillimeter Silver Nanowires Synthesized Using the Hydrothermal Method. <i>Materials</i> , 2019, 12, 721.	2.9	12
75	Characterisation of biphasic electrodes based on the liquid N,N-didodecyl-N,N'-diethylphenylenediamine redox system immobilised on porous hydrophobic silicates and immersed in aqueous media. <i>Journal of Electroanalytical Chemistry</i> , 2005, 582, 202-208.	3.8	11
76	Carbon nanoparticulate films as effective scaffolds for mediatorless bioelectrocatalytic hydrogen oxidation. <i>Electrochimica Acta</i> , 2013, 111, 434-440.	5.2	11
77	Electrode modified with nanoporous silicate submicrometre particles with appended ionic liquid. <i>Electrochemistry Communications</i> , 2009, 11, 1305-1307.	4.7	10
78	CRP-binding bacteriophage as a new element of layer-by-layer assembly carbon nanofiber modified electrodes. <i>Bioelectrochemistry</i> , 2020, 136, 107629.	4.6	10
79	Fingerprint detection using upconverting nanoparticles and comparison with cyanoacrylate fuming. <i>Forensic Science International</i> , 2021, 326, 110915.	2.2	10
80	Native Llama Nanobody Library Panning Performed by Phage and Yeast Display Provides Binders Suitable for C-Reactive Protein Detection. <i>Biosensors</i> , 2021, 11, 496.	4.7	10
81	Plasmonics with Metallic Nanowires. <i>Materials</i> , 2019, 12, 1418.	2.9	9
82	Electrochemical redox reaction at silicate based electrode-silicate based electrolyte interface. <i>Electrochemistry Communications</i> , 2003, 5, 924-928.	4.7	7
83	Fluorescence enhancement of photosynthetic complexes separated from nanoparticles by a reduced graphene oxide layer. <i>Applied Physics Letters</i> , 2014, 104, 093103.	3.3	7
84	Carbon Nanoparticulate Film Electrode Prepared by Electrophoretic Deposition. Electrochemical oxidation of Thiocholine and Topography Imaging with SECM Equipment in Dry Conditions. <i>Electrochimica Acta</i> , 2014, 144, 136-140.	5.2	7
85	Alkali-resistant low-temperature atomic-layer-deposited oxides for optical fiber sensor overlays. <i>Nanotechnology</i> , 2018, 29, 135602.	2.6	7
86	Wide-Field Fluorescence Microscopy of Real-Time Bioconjugation Sensing. <i>Sensors</i> , 2018, 18, 290.	3.8	7
87	Capturing fluorescing viruses with silver nanowires. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 689-695.	7.8	7
88	Electroassisted click chemistry immobilisation of gold nanoparticles on a solid substrate. <i>Electrochemistry Communications</i> , 2015, 53, 20-23.	4.7	6
89	<i>In Situ</i> Interactions of Eu(TTA) ₃ (H ₂ O) ₂ with Latent Fingerprint Components—A Time-Gated Visualization of Latent Fingermarks on Paper. <i>Analytical Chemistry</i> , 2020, 92, 15671-15678.	6.5	6
90	Silver Island Film for Enhancing Light Harvesting in Natural Photosynthetic Proteins. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2451.	4.1	6

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91	Preparation and reactivity of carboxylic acid-terminated boron-doped diamond electrodes. <i>Electrochimica Acta</i> , 2010, 55, 959-964.	5.2	5
92	(Bio)electrocatalysis at tin-doped indium oxide nanoparticulate film decorated with gold. <i>Electrochimica Acta</i> , 2013, 106, 165-171.	5.2	5
93	Real-time fluorescence sensing of single photoactive proteins using silver nanowires. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 045004.	2.3	5
94	Specific detection of very low concentrations of DNA oligonucleotides with DNA-coated long-period grating biosensor. , 2017, , .		4
95	Spectrally selective fluorescence imaging of <i>Chlorobaculum tepidum</i> reaction centers conjugated to chelator-modified silver nanowires. <i>Photosynthesis Research</i> , 2018, 135, 329-336.	2.9	4
96	Malononitrile derivatives as push-pull molecules: Structure - properties relationships characterization. <i>Journal of Luminescence</i> , 2018, 203, 455-466.	3.1	4
97	Water-Induced Fused Silica Glass Surface Alterations Monitored Using Long-Period Fiber Gratings. <i>Journal of Lightwave Technology</i> , 2019, 37, 4542-4548.	4.6	4
98	Performance of nanoimprinted and nanocoated optical label-free biosensor - nanocoating properties perspective. <i>Optics and Lasers in Engineering</i> , 2022, 153, 107009.	3.8	4
99	Photochemical Printing of Plasmonically Active Silver Nanostructures. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2006.	4.1	3
100	Controlling plasmon propagation and enhancement via reducing agent in wet chemistry synthesized silver nanowires. <i>Optics Express</i> , 2021, 29, 8834.	3.4	3
101	Optical fiber lossy-mode resonance sensors with doped tin oxides for optical working electrode monitoring in electrochemical systems. , 2019, , .		3
102	Theoretical and experimental study of the short and long range sensing using gold nanostructures. , 2010, , .		2
103	Hollow microtubes made of carbon, boron and gold: novel semiconducting nanocomposite material for applications in electrochemistry and temperature sensing. <i>RSC Advances</i> , 2015, 5, 64083-64090.	3.6	2
104	Correlating Plasmon Polariton Propagation and Fluorescence Enhancement in Single Silver Nanowires. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15418-15424.	3.1	2
105	Solid electrolyte based on silicate matrix functionalised with tetraalkylammonium group solvated by organic solvent. <i>Electrochimica Acta</i> , 2003, 48, 4149-4155.	5.2	1
106	Regeneration of titanium oxide nano-coated long-period grating biosensor. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
107	Combined optical and electrochemical analysis of protein binding with ITO-coated lossy-mode resonance sensor. , 2019, , .		1
108	Real-Time Fluorescence Imaging of His-Tag-Driven Conjugation of mCherry Proteins to Silver Nanowires. <i>Chemosensors</i> , 2022, 10, 149.	3.6	1

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109	Bacteriophages-Carbon Nanofibre Modified Electrodes for Biosensing Applications. Proceedings (mdpi), 2017, 1, .	0.2	0
110	Printed carbon based interface for protein immobilization. Journal of Materials Science: Materials in Electronics, 2019, 30, 12465-12474.	2.2	0
111	Patterned silver island paths as high-contrast optical sensing platforms. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 268, 115124.	3.5	0
112	A Tribute to Marcin Opallo on his 65th Birthday: Electrochemistry over 40 Years. ChemElectroChem, 2021, 8, 2990-2992.	3.4	0