

# Marta Eliza Plonska-Brzezinska

## List of Publications by Year in descending order

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84  
papers

2,785  
citations

136950

32  
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189892

50  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2773  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nano-onions: Unique carbon nanostructures with fascinating properties and their potential applications. <i>Inorganica Chimica Acta</i> , 2017, 468, 49-66.	2.4	161
2	Sc <sub>3</sub> N@C <sub>80</sub> Ferrocene Electron Donor/Acceptor Conjugates as Promising Materials for Photovoltaic Applications. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4173-4176.	13.8	141
3	Carbon nano-onions for supercapacitor electrodes: recent developments and applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13703.	10.3	132
4	Conducting Polymers, Hydrogels and Their Composites: Preparation, Properties and Bioapplications. <i>Polymers</i> , 2019, 11, 350.	4.5	127
5	Synthesis, Characterization, and Photoinduced Electron Transfer Processes of Orthogonal Ruthenium Phthalocyanine~Fullerene Assemblies. <i>Journal of the American Chemical Society</i> , 2009, 131, 10484-10496.	13.7	105
6	Metal Nitride Cluster Fullerene M <sub>3</sub> N@C <sub>80</sub> (M=Y, Sc) Based Dyads: Synthesis, and Electrochemical, Theoretical and Photophysical Studies. <i>Chemistry - A European Journal</i> , 2009, 15, 864-877.	3.3	96
7	Electrochemical oxidation and determination of dopamine in the presence of uric and ascorbic acids using a carbon nano-onion and poly(diallyldimethylammonium chloride) composite. <i>Electrochimica Acta</i> , 2012, 72, 61-67.	5.2	94
8	Hydrogels as Potential Nano-, Micro- and Macro-Scale Systems for Controlled Drug Delivery. <i>Materials</i> , 2020, 13, 188.	2.9	76
9	Carbon Nano~Onions: A Review of Recent Progress in Synthesis and Applications. <i>ChemNanoMat</i> , 2019, 5, 568-580.	2.8	75
10	A glassy carbon electrode modified with carbon nanoonions for electrochemical determination of fentanyl. <i>Materials Science and Engineering C</i> , 2020, 110, 110684.	7.3	74
11	Small Noncytotoxic Carbon Nano~Onions: First Covalent Functionalization with Biomolecules. <i>Chemistry - A European Journal</i> , 2010, 16, 4870-4880.	3.3	73
12	Preparation and Characterization of Carbon Nano~Onion/PEDOT:PSS Composites. <i>ChemPhysChem</i> , 2012, 13, 4134-4141.	2.1	64
13	Chemical versus Electrochemical Synthesis of Carbon Nano~Onion/Polypyrrole Composites for Supercapacitor Electrodes. <i>Chemistry - A European Journal</i> , 2015, 21, 5783-5793.	3.3	64
14	The synthesis and characterization of carbon nano-onions produced by solution ozonolysis. <i>Carbon</i> , 2011, 49, 5079-5089.	10.3	63
15	Preparation and Characterization of Composites that Contain Small Carbon Nano~Onions and Conducting Polyaniline. <i>Chemistry - A European Journal</i> , 2012, 18, 2600-2608.	3.3	63
16	Synthesis of carbon nano-onion and nickel hydroxide/oxide composites as supercapacitor electrodes. <i>RSC Advances</i> , 2013, 3, 25891.	3.6	60
17	Introducing a novel nanocomposite consisting of nitrogen-doped carbon nano-onions and gold nanoparticles for the electrochemical sensor to measure acetaminophen. <i>Journal of Electroanalytical Chemistry</i> , 2020, 871, 114309.	3.8	57
18	A new electrochemical aptasensor based on gold/nitrogen-doped carbon nano-onions for the detection of <i>Staphylococcus aureus</i> . <i>Electrochimica Acta</i> , 2022, 403, 139633.	5.2	54

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19	Electrochemical properties of composites containing small carbon nano-onions and solid polyelectrolytes. <i>Journal of Materials Chemistry</i> , 2010, 20, 7761.	6.7	53
20	Preparation and Characterization of Magnetic Fe <sub>3</sub> O <sub>4</sub> /CdWO <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> /CdWO <sub>4</sub> /PrVO <sub>4</sub> Nanoparticles and Investigation of Their Photocatalytic and Anticancer Properties on PANC1 Cells. <i>Materials</i> , 2019, 12, 3274.	2.9	53
21	Preparation and characterization of soluble carbon nano-onions by covalent functionalization, employing a Na <sup>+</sup> K alloy. <i>Chemical Communications</i> , 2013, 49, 2406.	4.1	47
22	Electrochemical Properties of Small Carbon Nano-Onion Films. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, K35.	2.2	45
23	Hydrogel Properties and Their Impact on Regenerative Medicine and Tissue Engineering. <i>Molecules</i> , 2020, 25, 5795.	3.8	45
24	Highly Efficient Retro-cycloaddition Reaction of Isoxazolino[4,5:1,2][60]- and -[70]fullerenes. <i>Journal of Organic Chemistry</i> , 2007, 72, 3840-3846.	3.2	42
25	Electropolymerization of 2 <sup>-</sup> -Ferrocenylpyrrolidino-[3 <sup>-</sup> ,4 <sup>-</sup> ;1,2][C60]fullerene in the Presence of Palladium Acetate. Formation of an Electroactive Fullerene-Based Film with a Covalently Attached Redox Probe. <i>Chemistry of Materials</i> , 2003, 15, 4122-4131.	6.7	40
26	Electric properties of carbon nano-onion/polyaniline composites: a combined electric modulus and ac conductivity study. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 285305.	2.8	40
27	Post-modification by low-temperature annealing of carbon nano-onions in the presence of carbohydrates. <i>Carbon</i> , 2014, 67, 304-317.	10.3	39
28	Comparison of the electrochemical properties of thin films of MWCNTs/C60-Pd, SWCNTs/C60-Pd and ox-CNOs/C60-Pd. <i>Electrochimica Acta</i> , 2013, 96, 274-284.	5.2	38
29	STM-Based Molecular Junction of Carbon Nano-Onion. <i>ChemPhysChem</i> , 2013, 14, 96-100.	2.1	37
30	Boron-Doped Polygonal Carbon Nano-Onions: Synthesis and Applications in Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , 2017, 23, 7132-7141.	3.3	36
31	<i>meso,meso</i> -Linked and Triply Fused Diporphyrins with Mixed-Metal Ions: Synthesis and Electrochemical Investigations. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 4659-4673.	2.4	35
32	Zinc Porphyrin-Functionalized Fullerenes for the Sensitization of Titania as a Visible-Light Active Photocatalyst: River Waters and Wastewaters Remediation. <i>Molecules</i> , 2019, 24, 1118.	3.8	33
33	The Electrochemical Properties of Nanocomposite Films Obtained by Chemical In Situ Polymerization of Aniline and Carbon Nanostructures. <i>ChemPhysChem</i> , 2013, 14, 116-124.	2.1	32
34	Synthesis of Magnetic Fe <sub>3</sub> O <sub>4</sub> /ZnWO <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> /ZnWO <sub>4</sub> /CeVO <sub>4</sub> Nanoparticles: The Photocatalytic Effects on Organic Pollutants upon Irradiation with UV-Vis Light. <i>Catalysts</i> , 2020, 10, 494.	3.5	32
35	Electrochemical Properties of Oxidized Carbon Nano-Onions: DRIFTS-FTIR and Raman Spectroscopic Analyses. <i>ChemPhysChem</i> , 2011, 12, 2659-2668.	2.1	31
36	Evaluation of the Covalent Functionalization of Carbon Nano-Onions with Pyrene Moieties for Supercapacitor Applications. <i>Materials</i> , 2020, 13, 1141.	2.9	30

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37	Redox Active Two-Component Films of Palladium and Covalently Linked Zinc Porphyrinâ€‘Fullerene Dyad. <i>Electroanalysis</i> , 2006, 18, 841-848.	2.9	27
38	Influence of the Synthetic Conditions on the Structural and Electrochemical Properties of Carbon Nanoâ€‘Onions. <i>ChemPhysChem</i> , 2015, 16, 2182-2191.	2.1	27
39	Application of carbon nanoonion-NiMoO4-MnWO4 nanocomposite for modification of glassy carbon electrode: Electrochemical determination of ascorbic acid. <i>Microchemical Journal</i> , 2020, 159, 105470.	4.5	27
40	Postsynthetic treatment of carbon nano-onions: Surface modification by heteroatoms to enhance their capacitive and electrocatalytic properties. <i>Carbon</i> , 2019, 147, 90-104.	10.3	26
41	A reinvestigation of the electrochemical behavior of Sc3N@C80. <i>Journal of Electroanalytical Chemistry</i> , 2008, 614, 171-174.	3.8	24
42	Improvement of the Structural and Chemical Properties of Carbon Nanoâ€‘Onions for Electrocatalysis. <i>ChemNanoMat</i> , 2017, 3, 583-590.	2.8	24
43	Combined high permittivity and high electrical conductivity of carbon nano-onion/polyaniline composites. <i>Synthetic Metals</i> , 2015, 209, 583-587.	3.9	23
44	Carbon nano-onion composites: Physicochemical characteristics and biological activity. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 185-192.	2.1	23
45	Nanoforest: Polyaniline Nanotubes Modified with Carbon Nano-Onions as a Nanocomposite Material for Easy-to-Miniaturize High-Performance Solid-State Supercapacitors. <i>Polymers</i> , 2018, 10, 1408.	4.5	23
46	Carbon Nanoâ€‘Onions and Biocompatible Polymers for Flavonoid Incorporation. <i>Chemistry - A European Journal</i> , 2013, 19, 5019-5024.	3.3	22
47	A phenol-formaldehyde polymeric network to generate organic aerogels: synthesis, physicochemical characteristics and potential applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 845-852.	10.3	19
48	PEGylated Carbon Nano-onions Composite as a Carrier of Polyphenolic Compounds: A Promising System for Medical Applications and Biological Sensors. <i>Colloids and Interface Science Communications</i> , 2017, 21, 6-9.	4.1	15
49	Triple helical collagen-like peptide interactions with selected polyphenolic compounds. <i>RSC Advances</i> , 2015, 5, 95443-95453.	3.6	14
50	Structure and Application of ED-20 Epoxy Resin Hydroxy-Containing Derivatives in Bitumen-Polymeric Blends. <i>Chemistry and Chemical Technology</i> , 2015, 9, 69-76.	1.1	14
51	Enhanced Photocatalytic Performance of Porphyrin/Phthalocyanine and <i>i&gt;Bis&lt;/i&gt;(4â€‘pyridyl)pyrrolidinofullerene modified Titania. <i>ChemistrySelect</i>, 2017, 2, 2462-2470.</i>	1.5	12
52	Correlation between the catalytic and electrocatalytic properties of nitrogen-doped carbon nanoonions and the polarity of the carbon surface: Experimental and theoretical investigations. <i>Carbon</i> , 2019, 151, 120-129.	10.3	11
53	Onion-Like Carbon Nanostructures: An Overview of Bio-Applications. <i>Current Medicinal Chemistry</i> , 2019, 26, 6896-6914.	2.4	11
54	Mediated Electrocatalysis at the Electrodes Covered with [MIII(bpy)3](ClO4)3 (M=Co and Fe) in the Presence of Electroactive Solutes. <i>Electroanalysis</i> , 2003, 15, 55-64.	2.9	10

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55	A new perspective on carbon nano-onion/nickel hydroxide/oxide composites: Physicochemical properties and application in hybrid electrochemical systems. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 193-203.	2.1	10
56	Carbon nanoonion-ferrocene conjugates as acceptors in organic photovoltaic devices. <i>Nanoscale Advances</i> , 2019, 1, 3164-3176.	4.6	10
57	Nanostructural catalyst: metallophthalocyanine and carbon nano-onion with enhanced visible-light photocatalytic activity towards organic pollutants. <i>RSC Advances</i> , 2020, 10, 10910-10920.	3.6	10
58	Three-Component EC-SPR Biosensor Based on Graphene Oxide, SiO <sub>2</sub> and Gold Nanoparticles in NADH Determination. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, M3018-M3025.	1.8	9
59	Controlled Trapping of Onion-Like Carbon (OLC) via Dielectrophoresis. <i>Journal of Electronic Materials</i> , 2017, 46, 443-450.	2.2	9
60	Remarkable solvent effect on the structure and electrochemical properties of [M(bipyridyl) <sub>3</sub> ](ClO <sub>4</sub> ) <sub>3</sub> (M=Co, Fe and Ru) films. <i>Electrochimica Acta</i> , 2006, 51, 4544-4553.	5.2	8
61	Carbon Nano-Onion and Zinc Oxide Composites as an Electron Transport Layer in Inverted Organic Solar Cells. <i>ChemNanoMat</i> , 2020, 6, 248-257.	2.8	8
62	Obtaining of Coumarone-Indene Resins Based on Light Fraction of Coal Tar. 3. Coumarone-Indene Resins with Methacrylic Fragments. <i>Chemistry and Chemical Technology</i> , 2018, 12, 379-385.	1.1	8
63	New insights into the electrodeposition and redox properties of [M(Bipyridyl) <sub>3</sub> ](ClO <sub>4</sub> ) <sub>3</sub> (M=Co and Fe) films in media of low dielectric constant. <i>Journal of Electroanalytical Chemistry</i> , 2002, 526, 77-84.	3.8	6
64	Vibrational spectroscopic study of carbon nano-onions coated with polyaniline. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1210-1212.	0.8	6
65	1,2,3,4,6-Penta-O-galloyl- $\beta$ -D-glucopyranose: Its Anti-Inflammatory and Antibacterial Properties. <i>ChemistrySelect</i> , 2018, 3, 2498-2501.	1.5	6
66	Carbon Nanomaterials: Perspective of their Applications in Biomedicine. <i>Current Medicinal Chemistry</i> , 2019, 26, 6832-6833.	2.4	6
67	Opening the internal structure for transport of ions: improvement of the structural and chemical properties of single-walled carbon nanohorns for supercapacitor electrodes. <i>RSC Advances</i> , 2020, 10, 38357-38368.	3.6	6
68	Study of Phenol-Formaldehyde Oligomers Derivatives Structure by IR- and NMR-Spectroscopy. <i>Chemistry and Chemical Technology</i> , 2015, 9, 435-443.	1.1	6
69	Linking the Defective Structure of Boron-Doped Carbon Nano-Onions with Their Catalytic Properties: Experimental and Theoretical Studies. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51628-51642.	8.0	5
70	Polymeric Network Hierarchically Organized on Carbon Nano-onions: Block Polymerization as a Tool for the Controlled Formation of Specific Pore Diameters. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2442-2458.	4.4	5
71	Microelectrodes Modified with [M(III)(bpy) <sub>3</sub> ](ClO <sub>4</sub> ) <sub>3</sub> (M=Co and Fe) as Analytical Sensors for Fullerenes in Flow Injection Analysis. <i>Electroanalysis</i> , 2001, 13, 1185-1190.	2.9	4
72	A Nanocomposite Containing Carbon Nano-Onions and Polyaniline Nanotubes as a Novel Electrode Material for Electrochemical Sensing of Daidzein. <i>Electroanalysis</i> , 2021, 33, 1107-1114.	2.9	4

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73	Synthesis and Structural Characterization of Pyridine-2,6-dicarboxamide and Furan-2,5-dicarboxamide Derivatives. <i>Molecules</i> , 2022, 27, 1819.	3.8	4
74	Monocarbonyl Analogs of Curcumin Based on the Pseudopelletierine Scaffold: Synthesis and Anti-Inflammatory Activity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11384.	4.1	3
75	Carbon nano-onion induced organization of polyacrylonitrile-derived block star polymers to obtain mesoporous carbon materials. <i>Chemical Communications</i> , 2022, 58, 6829-6832.	4.1	3
76	Investigation of Functional Carboxy-Containing Oligomers by IR and NMR Spectroscopy. <i>Chemistry and Chemical Technology</i> , 2016, 10, 125-134.	1.1	1
77	Microwave-Assisted Synthesis of Modified Glycidyl Methacrylate- $\epsilon$ -Ethyl Methacrylate Oligomers, Their Physico-Chemical and Biological Characteristics. <i>Molecules</i> , 2022, 27, 337.	3.8	1
78	Synthesis of carbon nano-onion/nickel hydroxide/oxide composites for electrochemical supercapacitor electrode applications. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s378-s378.	0.1	0
79	Capacitance Performance of the Multiwall Carbon Nanotube Films as well as Films of Composites of the C60-Pd Polymer and Multiwall Carbon Nanotubes. <i>ECS Meeting Abstracts</i> , 2009, , .	0.0	0
80	Electrochemical Properties of Small Carbon Nanoonion Films. <i>ECS Meeting Abstracts</i> , 2009, , .	0.0	0
81	Modified Carbon Nano-Onions in Supercapacitor Electrodes. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
82	Chemical Synthesis of Carbon Nano-Onion and Nickel Nanoparticle Composite As a Supercapacitor Electrode. <i>ECS Meeting Abstracts</i> , 2014, , .	0.0	0
83	Interpenetrating Network on the Basis of Methylcyclotetrasiloxane Matrix. <i>Chemistry and Chemical Technology</i> , 2019, 13, 64-70.	1.1	0
84	Fluorine-Containing Siloxane Based Polymer Electrolyte Membranes. <i>Chemistry and Chemical Technology</i> , 2019, 13, 444-450.	1.1	0