Jadranka Travas-Sejdic

List of Publications by Citations

122 papers	4,362 citations	34 h-index	63 g-index
128 ext. papers	4,867 ext. citations	6.8 avg, IF	5.94 L-index

#	Paper	IF	Citations
122	Simple Aqueous Solution Route to Luminescent Carbogenic Dots from Carbohydrates. *Chemistry of Materials*, **2009**, 21, 5563-5565	9.6	668
121	Electrochemically controlled drug delivery based on intrinsically conducting polymers. *Journal of Controlled Release*, **2010**, 146, 6-15	11.7	336
120	Sensitive, selective, disposable electrochemical dopamine sensor based on PEDOT-modified laser scribed graphene. *Biosensors and Bioelectronics*, **2018**, 107, 184-191	11.8	166
119	Studies of dopant effects in poly(3,4-ethylenedi-oxythiophene) using Raman spectroscopy. *Journal of Raman Spectroscopy*, **2006**, 37, 1354-1361	2.3	160
118	Role of Aniline Oligomeric Nanosheets in the Formation of Polyaniline Nanotubes. *Macromolecules*, **2010**, 43, 662-670	5.5	144
117	Theories of polyaniline nanostructure self-assembly: Towards an expanded, comprehensive Multi-Layer Theory (MLT). *Progress in Polymer Science*, **2010**, 35, 1403-1419	29.6	141
116	Conducting polymer based electrochemical biosensors. *Physical Chemistry Chemical Physics*, **2016**, 18, 8264-77	3.6	133
115	Ultrasensitive colorimetric detection of 17β-estradiol: the effect of shortening DNA aptamer sequences. *Analytical Chemistry*, **2015**, 87, 4201-9	7.8	116
114	Self-Assembled, Nanostructured Aniline Oxidation Products: A Structural Investigation. *Macromolecules*, **2008**, 41, 3125-3135	5.5	102
113	Morphological Evolution of Self-Assembled Polyaniline Nanostuctures Obtained by pH-stat Chemical Oxidation. *Chemistry of Materials*, **2009**, 21, 954-962	9.6	99
112	Novel Conducting Polymers for DNA Sensing. *Macromolecules*, **2007**, 40, 909-914	5.5	93
111	Conjugated polymers and composites for stretchable organic electronics. *Journal of Materials Chemistry C*, **2019**, 7, 5534-5552	7.1	81
110	Functionalization of conducting polymers for biointerface applications. *Progress in Polymer Science*, **2017**, 70, 18-33	29.6	76
109	Characterization of Polyaniline Nanotubes Formed in the Presence of Amino Acids. *Macromolecular Chemistry and Physics*, **2007**, 208, 1210-1217	2.6	72
108	Polymeric Acid Doped Polyaniline Nanotubes for Oligonucleotide Sensors. *Electroanalysis*, **2007**, 19, 870-875	3	68
107	Reversible electrochemical switching of polymer brushes grafted onto conducting polymer films. *Langmuir*, **2012**, 28, 8072-83	4	65
106	Conducting polymers with defined micro- or nanostructures for drug delivery. *Biomaterials*, **2016**, 111, 149-162	15.6	64

105	High-sensitivity, label-free DNA sensors using electrochemically active conducting polymers. *Analytical Chemistry*, **2011**, 83, 3415-21	7.8	60
104	Label-free electrochemical aptasensor for femtomolar detection of 17β-estradiol. *Biosensors and Bioelectronics*, **2015**, 70, 398-403	11.8	58
103	Stability and Synergistic Effect of Polyaniline/TiO2 Photocatalysts in Degradation of Azo Dye in Wastewater. *Nanomaterials*, **2017**, 7,	5.4	57
102	ABTS• scavenging activity of polypyrrole, polyaniline and poly(3,4-ethylenedioxythiophene). *Polymer International*, **2011**, 60, 69-77	3.3	47
101	Grafting from Poly(3,4-ethylenedioxythiophene): A Simple Route to Versatile Electrically Addressable Surfaces. *Macromolecules*, **2013**, 46, 4955-4965	5.5	46
100	Self-Assembled Hollow Polyaniline/Au Nanospheres Obtained by a One-Step Synthesis. *Macromolecular Rapid Communications*, **2008**, 29, 598-603	4.8	45
99	A highly sensitive, label-free gene sensor based on a single conducting polymer nanowire. *Biosensors and Bioelectronics*, **2012**, 35, 258-264	11.8	44
98	Development of a Controlled Release System for Risperidone Using Polypyrrole: Mechanistic Studies. *Electroanalysis*, **2010**, 22, 439-444	3	43
97	Polyaniline "nanotube" self-assembly: the stage of granular agglomeration on nanorod templates. *Macromolecular Rapid Communications*, **2009**, 30, 1663-8	4.8	40
96	Molecular Approach to Conjugated Polymers with Biomimetic Properties. *Accounts of Chemical Research*, **2018**, 51, 1581-1589	24.3	39
95	Electrochemical cytosensors for detection of breast cancer cells. *Biosensors and Bioelectronics*, **2020**, 151, 111984	11.8	39
94	An ultrasensitive electrochemical impedance-based biosensor using insect odorant receptors to detect odorants. *Biosensors and Bioelectronics*, **2019**, 126, 207-213	11.8	39
93	Molecularly Engineered Intrinsically Healable and Stretchable Conducting Polymers. *Chemistry of Materials*, **2017**, 29, 8850-8858	9.6	38
92	Distinguishing cytosine methylation using electrochemical, label-free detection of DNA hybridization and ds-targets. *Biosensors and Bioelectronics*, **2015**, 64, 74-80	11.8	38
91	Scanned Pipette Techniques for the Highly Localized Electrochemical Fabrication and Characterization of Conducting Polymer Thin Films, Microspots, Microribbons, and Nanowires. *Advanced Functional Materials*, **2011**, 21, 4607-4616	15.6	38
90	Self-Assembly of Poly(o-methoxyaniline) Hollow Microspheres. *Journal of Physical Chemistry C*, **2009**, 113, 9128-9134	3.8	36
89	Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation. *Advanced Healthcare Materials*, **2019**, 8, e1900425	10.1	35
88	Direct Writing and Characterization of Three-Dimensional Conducting Polymer PEDOT Arrays. *ACS Applied Materials & Interfaces*, **2018**, 10, 11888-11895	9.5	34

87	Switchable surfaces of electroactive polymer brushes grafted from polythiophene ATRP-macroinitiator. *Synthetic Metals*, **2012**, 162, 381-390	3.6	34
86	Lamellar-structured nanoflakes comprised of stacked oligoaniline nanosheets. *Chemistry - an Asian Journal*, **2011**, 6, 791-6	4.5	34
85	Detection of Neurotransmitters by Three-Dimensional Laser-Scribed Graphene Grass Electrodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 42136-42145	9.5	32
84	Electrospun Polythiophene Phenylenes for Tissue Engineering. *Biomacromolecules*, **2018**, 19, 1456-1468	6.9	31
83	The application of nanopipettes to conducting polymer fabrication, imaging and electrochemical characterization. *Progress in Polymer Science*, **2012**, 37, 1177-1191	29.6	29
82	Conducting electrospun fibres with polyanionic grafts as highly selective, label-free, electrochemical biosensor with a low detection limit for non-Hodgkin lymphoma gene. *Biosensors and Bioelectronics*, **2018**, 100, 549-555	11.8	28
81	Measuring the ionic flux of an electrochemically actuated conducting polymer using modified scanning ion conductance microscopy. *Journal of the American Chemical Society*, **2011**, 133, 5748-51	16.4	28
80	Highly functionalisable polythiophene phenylenes. *Polymer Chemistry*, **2015**, 6, 7618-7629	4.9	25
79	Conductive surfaces with dynamic switching in response to temperature and salt. *Journal of Materials Chemistry B*, **2015**, 3, 9285-9294	7.3	25
78	A new precursor for conducting polymer-based brush interfaces with electroactivity in aqueous solution. *Polymer*, **2013**, 54, 1305-1317	3.9	24
77	Electrostatic gating in carbon nanotube aptasensors. *Nanoscale*, **2016**, 8, 13659-68	7.7	24
76	Thermoresponsive laterally-branched polythiophene phenylene derivative as water-soluble temperature sensor. *Polymer Chemistry*, **2017**, 8, 4352-4358	4.9	23
75	The electrochemical growth of highly conductive single PEDOT (conducting polymer):BMIPF6 (ionic liquid) nanowires. *Journal of Materials Chemistry*, **2012**, 22, 18132		23
74	Switch on or switch off: an optical DNA sensor based on poly(p-phenylenevinylene) grafted magnetic beads. *Biosensors and Bioelectronics*, **2012**, 35, 498-502	11.8	22
73	Direct writing of conducting polymers. *Macromolecular Rapid Communications*, **2013**, 34, 1296-300	4.8	22
72	Graft Copolymers with Conducting Polymer Backbones: A Versatile Route to Functional Materials. *Chemical Record*, **2016**, 16, 393-418	6.6	22
71	Simultaneous Vapor-Phase Polymerization of PEDOT and a Siloxane into Organic/Inorganic Hybrid Thin Films. *Macromolecular Chemistry and Physics*, **2011**, 212, 521-530	2.6	21
70	Electrospun rubber fibre mats with electrochemically controllable pore sizes. *Journal of Materials Chemistry B*, **2015**, 3, 4249-4258	7.3	20

69	Water-soluble anionic poly(p-phenylene vinylenes) with high luminescence. *Polymer Chemistry*, **2013**, 4, 2506	4.9	20
68	The influence of macropores on PEDOT/PSS microelectrode coatings for neuronal recording and stimulation. *Sensors and Actuators B: Chemical*, **2019**, 281, 549-560	8.5	20
67	New immobilisation method for oligonucleotides on electrodes enables highly-sensitive, electrochemical label-free gene sensing. *Biosensors and Bioelectronics*, **2017**, 97, 128-135	11.8	19
66	Conducting Polymers as Electrode Coatings for Neuronal Multi-electrode Arrays. *Trends in Biotechnology*, **2017**, 35, 93-95	15.1	19
65	Effects of Redox Couple on the Response of Polypyrrole-Based Electrochemical DNA Sensors. *Electroanalysis*, **2012**, 24, 1311-1317	3	19
64	Label-Free, Electrochemical Quantitation of Potassium Ions from Femtomolar Levels. *Chemistry - an Asian Journal*, **2015**, 10, 2169-75	4.5	18
63	Disposable and portable gold nanoparticles modified - laser-scribed graphene sensing strips for electrochemical, non-enzymatic detection of glucose. *Electrochimica Acta*, **2021**, 378, 138132	6.7	18
62	PNA versus DNA in electrochemical gene sensing based on conducting polymers: study of charge and surface blocking effects on the sensor signal. *Analyst, The*, **2018**, 143, 687-694	5	17
61	Hollow Polyaniline and Indomethacin Composite Microspheres for Controlled Indomethacin Release. *Macromolecular Chemistry and Physics*, **2011**, 212, 2674-2684	2.6	17
60	Bio-inspired flow sensor from printed PEDOT:PSS micro-hairs. *Bioinspiration and Biomimetics*, **2015**, 10, 016017	2.6	16
59	Direct laser scribed graphene/PVDF-HFP composite electrodes with improved mechanical water wear and their electrochemistry. *Applied Materials Today*, **2017**, 8, 35-43	6.6	14
58	A Label-Free, Sensitive, Real-Time, Semiquantitative Electrochemical Measurement Method for DNA Polymerase Amplification (ePCR). *Analytical Chemistry*, **2015**, 87, 5189-97	7.8	14
57	Self-Assembled Oligoanilinic Nanosheets: Molecular Structure Revealed by Solid-State NMR Spectroscopy. *Macromolecules*, **2015**, 48, 8838-8843	5.5	14
56	Block copolymers for protein ordering. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	13
55	Synergistic improvement in the performance of insect odorant receptor based biosensors in the presence of Orco. *Biosensors and Bioelectronics*, **2020**, 153, 112040	11.8	12
54	Electrochemistry of interlayer supported polypyrrole tri-layer linear actuators. *Electrochimica Acta*, **2014**, 122, 322-328	6.7	12
53	Highly processable, rubbery poly(n-butyl acrylate) grafted poly(phenylene vinylene)s. *European Polymer Journal*, **2016**, 84, 355-365	5.2	12
52	Investigating Electrochemical Stability and Reliability of Gold Electrode-electrolyte Systems to Develop Bioelectronic Nose Using Insect Olfactory Receptor. *Electroanalysis*, **2019**, 31, 726-738	3	11

51	Carbide-derived carbon as active interlayer of polypyrrole tri-layer linear actuator. *Sensors and Actuators B: Chemical*, **2014**, 201, 100-106	8.5	11
50	Micelle directed chemical polymerization of polypyrrole particles for the electrically triggered release of dexamethasone base and dexamethasone phosphate. *International Journal of Pharmaceutics*, **2018**, 543, 38-45	6.5	10
49	Self-healing polythiophene phenylenes for stretchable electronics. *European Polymer Journal*, **2018**, 105, 331-338	5.2	10
48	Bioinspired dry adhesive: Poly(dimethylsiloxane) grafted with poly(2-ethylhexyl acrylate) brushes. *European Polymer Journal*, **2015**, 68, 432-440	5.2	10
47	Synthesis of Poly(3,4-ethylenedioxythiophene) Hollow Spheres in CTAB/DBS Mixed Surfactant Solutions. *Macromolecular Symposia*, **2010**, 290, 107-114	0.8	10
46	Investigation of the Reduction of Graphene Oxide by Lithium Triethylborohydride. *Journal of Nanomaterials*, **2016**, 2016, 1-10	3.2	9
45	Electrochemical aptasensor for 17 estradiol using disposable laser scribed graphene electrodes. *Biosensors and Bioelectronics*, **2021**, 185, 113247	11.8	9
44	Synthesis of grafted poly(p-phenyleneethynylene) via ARGET ATRP: Towards nonaggregating and photoluminescence materials. *European Polymer Journal*, **2017**, 89, 263-271	5.2	8
43	Flexible and Stretchable PEDOT-Embedded Hybrid Substrates for Bioengineering and Sensory Applications. *ChemNanoMat*, **2019**, 5, 729-737	3.5	8
42	Direct writing of 3D conjugated polymer micro/nanostructures for organic electronics and bioelectronics. *Polymer Chemistry*, **2020**, 11, 4530-4541	4.9	8
41	Structural Changes in Polyaniline upon Reaction with DPPH. *E-Journal of Surface Science and Nanotechnology*, **2009**, 7, 269-272	0.7	8
40	Novel Electrochemically Switchable, Flexible, Microporous Cloth that Selectively Captures, Releases, and Concentrates Intact Extracellular Vesicles. *ACS Applied Materials & Interfaces*, **2020**, 12, 39005-39013	9.5	8
39	Grafting Poly(acrylic acid) from PEDOT To Control the Deposition and Growth of Platinum Nanoparticles for Enhanced Electrocatalytic Hydrogen Evolution. *ACS Applied Energy Materials*, **2019**, 2, 1436-1444	6.1	7
38	Thermal decomposition of fire-retarded high-impact polystyrene and high-impact polystyrene/ethylene inyl acetate blend nanocomposites followed by thermal analysis. *Journal of Elastomers and Plastics*, **2014**, 46, 233-252	1.6	7
37	Self-Assembly of Methyl Substituted Polyaniline Hollow Nanospheres in a Polyelectrolyte Solution. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2014**, 63, 602-608	3	7
36	Polymer electronic composites that heal by solvent vapour. *RSC Advances*, **2016**, 6, 98466-98474	3.7	7
35	Influence of solvent on linear polypyrrole polyethylene oxide actuators. *Journal of Applied Polymer Science*, **2018**, 135, 46831	2.9	7
34	Luminescent CH3NH3PbBr3/ Cyclodextrin Core/Shell Nanodots with Controlled Size and Ultrastability through Host-Guest Interactions. *ChemNanoMat*, **2019**, 5, 1311-1316	3.5	6

33	Multiresponsive Behavior of Functional Poly(p-phenylene vinylene)s in Water. *Polymers*, **2016**, 8,	4.5	6
32	Fabrication of conducting polymer microelectrodes and microstructures for bioelectronics. *Journal of Materials Chemistry C*, **2021**, 9, 9730-9760	7.1	6
31	Electrochemical Study of Gold Microelectrodes Modified with PEDOT to Quantify Uric Acid in Milk Samples. *Electroanalysis*, **2020**, 32, 2101-2111	3	5
30	The Applications of Solid-State NMR to Conducting Polymers. The Special Case on Polyaniline. *Molecules*, **2020**, 25,	4.8	5
29	Improving the Electrochemical Performance and Stability of Polypyrrole by Polymerizing Ionic Liquids. *Polymers*, **2020**, 12,	4.5	5
28	Electroactive Metal Complexes Covalently Attached to Conductive PEDOT Films: A Spectroelectrochemical Study. *ACS Applied Materials & Interfaces*, **2021**, 13, 1301-1313	9.5	5
27	Molecular "Building Block" and "Side Chain Engineering": Approach to Synthesis of Multifunctional and Soluble Poly(pyrrole phenylene)s. *Macromolecular Rapid Communications*, **2019**, 40, e1800749	4.8	5
26	Polymer Brush Functionalization of Polyurethane Tunable Nanopores for Resistive Pulse Sensing. *ACS Applied Polymer Materials*, **2021**, 3, 279-289	4.3	5
25	Data on preparation and characterization of an insect odorant receptor based biosensor. *Data in Brief*, **2018**, 21, 2142-2148	1.2	5
24	Long side-chain grafting imparts intrinsic adhesiveness to poly(thiophene phenylene) conjugated polymer. *European Polymer Journal*, **2018**, 109, 237-247	5.2	5
23	Highly stretchable, solution-processable, and crosslinkable poly(3,4-ethylenedioxithiophene)-based conjugated polymers. *European Polymer Journal*, **2020**, 125, 109508	5.2	4
22	Self-assembled centimetre-sized rods obtained in the oxidation of o-phenylenediamine and aniline. *Polymer International*, **2015**, 64, 1135-1141	3.3	4
21	Photo-patternable, stretchable and electrically conductive graft copolymers of poly(3-hexylthiophene). *Polymer Chemistry*, **2019**, 10, 6278-6289	4.9	4
20	Insect odorant receptor-based biosensors: Current status and prospects. *Biotechnology Advances*, **2021**, 53, 107840	17.8	4
19	Chain shape and thin film behaviour of poly(thiophene)-graft-poly(acrylate urethane). *Soft Matter*, **2018**, 14, 6875-6882	3.6	3
18	A Novel Micro Ring Structured PPy/pTS Free Standing Film With Improved Actuation Stability. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2014**, 63, 424-429	3	3
17	Bowl-shaped poly(3,4-ethylenedioxythiophene)/Fe2O3 composites with elecromagnetic function. *Chinese Journal of Polymer Science (English Edition)*, **2013**, 31, 503-513	3.5	3
16	Facile synthesis of poly(methylsilsesquioxane) and MgO nanoparticle composite dielectrics. *Journal of Materials Research*, **2013**, 28, 1490-1497	2.5	3

15	DNA Sensors based on Conducting Polymers Functionalized with Conjugated Side Chain **2007**,		3
14	DNA detection using functionalized conducting polymers. *Methods in Molecular Biology*, **2011**, 751, 437-524		3
13	Insect odorant receptor nanodiscs for sensitive and specific electrochemical detection of odorant compounds. *Sensors and Actuators B: Chemical*, **2021**, 329, 129243	8.5	3
12	Dopant macroinitiator for electropolymerisation and functionalisation of conducting polymer thin films. *Polymer International*, **2017**, 66, 1841-1850	3.3	2
11	Flammability and Thermal Properties of Zeolite-Filled High-Impact Polystyrene Composites. *Polymer-Plastics Technology and Engineering*, **2014**, 53, 1487-1493		2
10	Nanostructural Aspects of Conducting-Polymer Actuators **2010**, 599-630		2
9	Neural Tissue Engineering: Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation (Adv. Healthcare Mater. 15/2019). *Advanced Healthcare Materials*, **2019**, 8, 1970062	10.1	1
8	A Conductive Microfiltration Membrane for In Situ Fouling Detection: Proof-of-Concept Using Model Wine Solutions. *Macromolecular Rapid Communications*, **2020**, 41, e2000303	4.8	1
7	A Novel Electrochemically Switchable Conductive Polymer Interface for Controlled Capture and Release of Chemical and Biological Entities. *Advanced Materials Interfaces*,2102475	4.6	1
6	Stretchable and Flexible Non-Enzymatic Glucose Sensor Based on Poly(ether sulfone)-Derived Laser-Induced Graphene for Wearable Skin Diagnostics. *Advanced Materials Technologies*,2101571	6.8	1
5	Polymer-Grafted Conjugated Polymers as Functional Biointerfaces **2018**, 359-401		0
4	Comparison of gold and PEDOT:PSS contacts for high-resolution gastric electrical mapping using flexible printed circuit arrays. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 6937-6940	0.9	0
3	Conducting polymer hydrogels with electrically-tuneable mechanical properties as dynamic cell culture substrates.. *Materials Science and Engineering C*, **2021**, 112559	8.3	0
2	Macromol. Rapid Commun. 16/2013. *Macromolecular Rapid Communications*, **2013**, 34, 1336-1336	4.8	
1	Ultra-Highly Sensitive DNA Detection with Conducting Polymer-Modified Electrodes: Mechanism, Manufacture and Prospects for Rapid e-PCR. *Journal of the Electrochemical Society*, **2022**, 169, 037521	3.9	