

Pascal Martin

List of Publications by Year in descending order

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64
papers

2,493
citations

257450

24
h-index

189892

50
g-index

65
all docs

65
docs citations

65
times ranked

3100
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalent Modification of Carbon Surfaces by Aryl Radicals Generated from the Electrochemical Reduction of Diazonium Salts. <i>Journal of the American Chemical Society</i> , 1997, 119, 201-207.	13.7	978
2	Activationless charge transport across 4.5 to 22 nm in molecular electronic junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5326-5330.	7.1	149
3	Giant Plasmon Resonance Shift Using Poly(3,4-ethylenedioxythiophene) Electrochemical Switching. <i>Journal of the American Chemical Society</i> , 2010, 132, 10224-10226.	13.7	101
4	Mass transport and heterogeneous electron transfer of a ferrocene derivative in a room-temperature ionic liquid. <i>Journal of Electroanalytical Chemistry</i> , 2009, 632, 88-96.	3.8	88
5	Grafting Oligothiophenes on Surfaces by Diazonium Electroreduction: A Step toward Ultrathin Junction with Well-Defined Metal/Oligomer Interface. <i>Journal of the American Chemical Society</i> , 2009, 131, 14920-14927.	13.7	76
6	Direct Observation of Large Quantum Interference Effect in Anthraquinone Solid-State Junctions. <i>Journal of the American Chemical Society</i> , 2013, 135, 10218-10221.	13.7	72
7	Organic Electrodes Based on Grafted Oligothiophene Units in Ultrathin, Large-Area Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2012, 134, 154-157.	13.7	64
8	Ionic Liquid Viscosity Effects on the Functionalization of Electrode Material through the Electroreduction of Diazonium. <i>Langmuir</i> , 2010, 26, 18542-18549.	3.5	62
9	Control of Rectification in Molecular Junctions: Contact Effects and Molecular Signature. <i>Journal of the American Chemical Society</i> , 2017, 139, 11913-11922.	13.7	61
10	Plasmon-Induced Nanolocalized Reduction of Diazonium Salts. <i>ACS Omega</i> , 2017, 2, 1947-1955.	3.5	59
11	Highly Efficient Long-Range Electron Transport in a Viologen-Based Molecular Junction. <i>Journal of the American Chemical Society</i> , 2018, 140, 10131-10134.	13.7	54
12	Modification of carbon electrode in ionic liquid through the reduction of phenyl diazonium salt. Electrochemical evidence in ionic liquid. <i>Electrochemistry Communications</i> , 2008, 10, 1060-1063.	4.7	47
13	Electrosynthesis of well-organized nanoporous poly(3,4-ethylenedioxythiophene) by nanosphere lithography. <i>Electrochemistry Communications</i> , 2010, 12, 872-875.	4.7	39
14	Topology-Selective, Fluorescent Light-Probes for G-Quadruplex DNA Based on Photoinduced Electron Transfer. <i>Chemistry - A European Journal</i> , 2018, 24, 12638-12651.	3.3	37
15	Electrochemical oxidation of primary amine in ionic liquid media: Formation of organic layer attached to electrode surface. <i>Electrochemistry Communications</i> , 2010, 12, 246-249.	4.7	36
16	Host-Guest Complexation: A Convenient Route for the Electroreduction of Diazonium Salts in Aqueous Media and the Formation of Composite Materials. <i>Journal of the American Chemical Society</i> , 2010, 132, 1690-1698.	13.7	36
17	Tunable Plasmon Resonance of Gold Nanoparticles Functionalized by Electroactive Bisthiénylbenzene Oligomers or Polythiophene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25158-25166.	3.1	36
18	Highly Resolved Nanostructured PEDOT on Large Areas by Nanosphere Lithography and Electrodeposition. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21673-21681.	8.0	33

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19	Liquid Mechanical Behavior of Mixed Monolayers of Amino and Alkyl Silanes by Atomic Force Microscopy. <i>Langmuir</i> , 2005, 21, 6934-6943.	3.5	27
20	Formation of negative oxidation states of platinum and gold in redox ionic liquid: Electrochemical evidence. <i>Electrochemistry Communications</i> , 2008, 10, 1205-1209.	4.7	27
21	Molecular Signature and Activationless Transport in Cobalt-Terpyridine-Based Molecular Junctions. <i>Advanced Electronic Materials</i> , 2020, 6, 1901416.	5.1	27
22	Electrografted nanostructured platforms for click chemistry. <i>Electrochemistry Communications</i> , 2012, 23, 141-144.	4.7	25
23	Micro/Nano-Structured Polypyrrole Surfaces on Oxidizable Metals as Smart Electroswitchable Coatings. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10159-10164.	8.0	25
24	Improved adhesion of poly(3,4-ethylenedioxythiophene) (PEDOT) thin film to solid substrates using electrografted promoters and application to efficient nanoplasmonic devices. <i>Synthetic Metals</i> , 2019, 248, 45-52.	3.9	25
25	Electrografted monolayer based on a naphthalene diimide-ruthenium terpyridine complex dyad: efficient creation of large-area molecular junctions with high current densities. <i>Chemical Communications</i> , 2017, 53, 10997-11000.	4.1	23
26	Gold nanoparticles and poly(3,4-ethylenedioxythiophene) (PEDOT) hybrid films as counter-electrodes for enhanced efficiency in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014, 125, 601-605.	5.2	22
27	Medium Effects on the Nucleation and Growth Mechanisms during the Redox Switching Dynamics of Conducting Polymers: Case of Poly(3,4-ethylenedioxythiophene). <i>Journal of Physical Chemistry B</i> , 2011, 115, 205-216.	2.6	17
28	Tuning the thickness of electrochemically grafted layers in large area molecular junctions. <i>Journal of Applied Physics</i> , 2014, 116, 114509.	2.5	16
29	Large-area plasmonic electrodes and active plasmonic devices generated by electrochemical processes. <i>Electrochimica Acta</i> , 2015, 179, 282-287.	5.2	16
30	Probing electron-phonon excitations in molecular junctions by quantum interference. <i>Scientific Reports</i> , 2016, 6, 20899.	3.3	16
31	From active plasmonic devices to plasmonic molecular electronics. <i>Polymer International</i> , 2019, 68, 607-619.	3.1	16
32	Ultrathin Molecular Layer Junctions Based on Cyclometalated Ruthenium Complexes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29069-29074.	3.1	14
33	Experimental determination of conservative and dissipative parts in the tapping mode on a grafted layer: comparison with frequency modulation data. <i>Nanotechnology</i> , 2005, 16, 901-907.	2.6	13
34	Electrochemically monitored fluorescence on plasmonic gratings: A first step toward smart displays with multiple inputs. <i>Electrochimica Acta</i> , 2013, 110, 56-62.	5.2	13
35	Inelastic electron tunneling spectroscopy in molecular junctions showing quantum interference. <i>Physical Review B</i> , 2017, 95, .	3.2	12
36	Adsorption and combing of DNA on HOPG surfaces of bulk crystals and nanosheets: application to the bridging of DNA between HOPG/Si heterostructures. <i>Nanotechnology</i> , 2006, 17, 3325-3332.	2.6	11

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37	Electrochemical investigation of thin PEDOT film above an insulating substrate using scanning electrochemical microscopy. <i>Electrochemistry Communications</i> , 2009, 11, 2304-2307.	4.7	10
38	Nanostructured Mixed Layers of Organic Materials Obtained by Nanosphere Lithography and Electrochemical Reduction of Aryldiazonium Salts. <i>Langmuir</i> , 2019, 35, 15071-15077.	3.5	10
39	Plasmon-Induced Grafting in the Gap of Gold Nanoparticle Dimers for Plasmonic Molecular Junctions. <i>ACS Applied Nano Materials</i> , 2020, 3, 7789-7794.	5.0	10
40	Suspended HOPG nanosheets for HOPG nanoresonator engineering and new carbon nanostructure synthesis. <i>Nanotechnology</i> , 2006, 17, 5192-5200.	2.6	8
41	Tailored Surfaces/Assemblies for Molecular Plasmonics and Plasmonic Molecular Electronics. <i>Annual Review of Analytical Chemistry</i> , 2017, 10, 201-224.	5.4	8
42	Bottom-Up Electrochemical Fabrication of Conjugated Ultrathin Layers with Tailored Switchable Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 610-617.	8.0	7
43	Comparing plasmonic electrodes prepared by electron-beam lithography and electrochemical reduction of an Au (iii) salt: application in active plasmonic devices. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2016, 7, 015005.	1.5	6
44	Electrochemical generation of stable copper nanowires with quantized conductance in DNA media. <i>Electrochemistry Communications</i> , 2011, 13, 272-274.	4.7	5
45	Charge injection and transport properties of large area organic junctions based on aryl thin films covalently attached to a multilayer graphene electrode. <i>Nanoscale Advances</i> , 2019, 1, 414-420.	4.6	5
46	Electrografting of conductive oligomers and polymers using diazonium electroreduction. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2014, 5, 015001.	1.5	4
47	Dual electrochemical modulation of reflectivity and luminescence on plasmonic gratings investigated by fluorescence microscopy coupled to electrochemistry. <i>Electrochimica Acta</i> , 2015, 179, 618-625.	5.2	4
48	Anisotropy and Damping of Molecules/Cobalt Hybrid Thin Films. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	2.1	4
49	Giant spin signals in chemically functionalized multiwall carbon nanotubes. <i>Science Advances</i> , 2020, 6, eaba5494.	10.3	4
50	Nanometer-Thick Bilayers by Stepwise Electrochemical Reduction of Diazonium Compounds for Molecular Junctions. <i>ACS Applied Nano Materials</i> , 2021, 4, 13861-13870.	5.0	4
51	Role of S π -Au labile bonding in stochastic switching of molecular conductance studied by STM. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1867-1870.	1.5	3
52	Ab Initio DFT Simulations of Nanostructures. , 2012, , 11-17.		3
53	Dithienylpyrrole Electrografting on a Surface through the Electroreduction of Diazonium Salts. <i>Electrochem</i> , 2020, 1, 20-31.	3.3	3
54	Large-area in plane molecular junctions by electrografting in 10 nm metallic nanotrenches. <i>AIP Advances</i> , 2020, 10, .	1.3	3

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55	Insights on asymmetric BTB-based molecular junctions: Effect of electrode coupling. Chemical Physics Letters, 2022, 787, 139273.	2.6	3
56	Combing and self-assembly phenomena in dry films of Taxol-stabilized microtubules. Nanoscale Research Letters, 2007, 2, 135-143.	5.7	2
57	Electrochemical Investigation of Thin PANI Film onto Insulating Substrate Using Scanning Electrochemical Microscopy. ECS Transactions, 2009, 25, 89-95.	0.5	2
58	AFM, Tapping Mode. , 2012, , 99-99.		2
59	Inducing injection barrier by covalent functionalization of multiwall carbon nanotubes acting as Moiré crystals. Applied Physics Letters, 2016, 109, .	3.3	2
60	High performance room temperature p-type injection in few-layered tungsten diselenide films from cobalt and palladium contacts. Materials Research Express, 0, , .	1.6	2
61	AC Electroosmosis: Basics and Lab-on-a-Chip Applications. , 2012, , 25-30.		1
62	Organic-Inorganic Hybrid Interfaces for Spin Injection into Carbon Nanotubes and Graphene. Advanced Quantum Technologies, 2022, 5, .	3.9	1
63	AFM. , 2012, , 83-83.		0
64	Experimental Life Improvement Quantification of Shot Peening and Fastener Modifications. MATEC Web of Conferences, 2018, 165, 18005.	0.2	0