

# R Lazzaroni

## List of Publications by Year in descending order

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106  
papers

4,241  
citations

81743

39  
h-index

118652

62  
g-index

108  
all docs

108  
docs citations

108  
times ranked

4276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Supramolecular Organization of $\hat{I}\pm, \hat{I}\pm\hat{a}\hat{e}\hat{c}$ -Disubstituted Sexithiophenes. Journal of the American Chemical Society, 2002, 124, 1269-1275.	6.6	211
2	Thermoelectric properties of conducting polymers: The case of poly(3-hexylthiophene). Physical Review B, 2010, 82, .	1.1	196
3	About Oligothiophene Self-Assembly: From Aggregation in Solution to Solid-State Nanostructures. Chemistry of Materials, 2004, 16, 4452-4466.	3.2	186
4	The chemical and electronic structure of the interface between aluminum and polythiophene semiconductors. Journal of Chemical Physics, 1993, 99, 664-672.	1.2	162
5	Supramolecular organization in block copolymers containing a conjugated segment: a joint AFM/molecular modeling study. Progress in Polymer Science, 2003, 28, 55-81.	11.8	151
6	Electronic structure of molecular van der Waals complexes with benzene: Implications for the contrast in scanning tunneling microscopy of molecular adsorbates on graphite. Journal of Chemical Physics, 1997, 107, 99-105.	1.2	129
7	Highly Regular Organization of Conjugated Polymer Chains via Block Copolymer Self-Assembly. Advanced Materials, 2000, 12, 1042-1046.	11.1	126
8	Microdomain Morphology Analysis of Block Copolymers by Atomic Force Microscopy with Phase Detection Imaging. Langmuir, 1996, 12, 4317-4320.	1.6	123
9	A photoelectron spectroscopic study of the electrochemical processes in polyaniline. Journal of Chemical Physics, 1990, 92, 2187-2193.	1.2	118
10	Direct observation of charge-induced electronic structural changes in a conjugated polymer. Physical Review Letters, 1989, 63, 1841-1844.	2.9	116
11	Synthesis, Morphology, and Mechanical Properties of Poly(methyl methacrylate)-b-poly(n-butyl) Radical Polymerization. Macromolecules, 2000, 33, 470-479.	2.2	92
12	Micellar Morphological Changes Promoted by Cyclization of PS-b-PI Copolymer: DLS and AFM Experiments. Macromolecules, 2003, 36, 4125-4133.	2.2	89
13	Low-bandgap conjugated polymers. A joint experimental and theoretical study of the structure of polyisothianaphthene. Macromolecules, 1992, 25, 7347-7356.	2.2	84
14	Molecular Organization of Bis-urea Substituted Thiophene Derivatives at the Liquid/Solid Interface Studied by Scanning Tunneling Microscopy. Langmuir, 2000, 16, 10385-10391.	1.6	78
15	Correlation Between Molecular Structure, Microscopic Morphology, and Optical Properties of Poly(tetraalkylindenofluorene)s. Advanced Functional Materials, 2002, 12, 729-733.	7.8	75
16	Quantitative Measurement of the Mechanical Contribution to Tapping-Mode Atomic Force Microscopy Images of Soft Materials. Langmuir, 2000, 16, 8432-8437.	1.6	74
17	The chemical and electronic structure of the interface between aluminum and conjugated polymers or molecules. Synthetic Metals, 1993, 55, 212-217.	2.1	64
18	Interface formation between poly(2,5-diheptyl-p-phenylenevinylene) and calcium: implications for light-emitting diodes. Synthetic Metals, 1994, 67, 133-136.	2.1	62

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19	Theoretical investigation of the nature of the ground state in the low-bandgap conjugated polymer, poly(3,4-ethylenedioxythiophene). <i>Chemical Physics Letters</i> , 2002, 359, 466-472.	1.2	62
20	Density functional theory and Hartree-Fock studies of the geometric and electronic structure of neutral and doped ethylenedioxythiophene (EDOT) oligomers. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 517-523.	1.0	62
21	Valence Electronic Structure of $\pi$ -Conjugated Materials: A Simulation of the Ultraviolet Photoelectron Spectra with Semiempirical Hartree-Fock Approaches. <i>Chemistry of Materials</i> , 1999, 11, 2436-2443.	3.2	59
22	Reactions of low work function metals Na, Al, and Ca on $\pi$ -diphenyltetradecaheptaene. Implications for metal/polymer interfaces. <i>Journal of Chemical Physics</i> , 1994, 100, 6765-6771.	1.2	58
23	Organic semi-conducting architectures for supramolecular electronics. <i>European Polymer Journal</i> , 2004, 40, 885-892.	2.6	57
24	The poly(3-hexylthiophene)/NOPF6 system: A photoelectron spectroscopy study of electronic structural changes induced by the charge transfer in the solid state. <i>Journal of Chemical Physics</i> , 1990, 93, 4433-4439.	1.2	55
25	Organized Semiconducting Nanostructures from Conjugated Block Copolymer Self-Assembly. <i>Chemistry of Materials</i> , 1998, 10, 4010-4014.	3.2	54
26	Growth of ultrathin Ti films deposited on SnO <sub>2</sub> by magnetron sputtering. <i>Thin Solid Films</i> , 2003, 437, 57-62.	0.8	54
27	Electronic structure of polyanilines: An XPS study of electrochemically prepared compounds. <i>Synthetic Metals</i> , 1986, 16, 245-255.	2.1	53
28	Electronic structure of polyaniline and substituted derivatives. <i>Synthetic Metals</i> , 1987, 18, 335-340.	2.1	50
29	XPS/AFM study of the PET surface modified by oxygen and carbon dioxide plasmas: Al/PET adhesion. <i>Journal of Adhesion Science and Technology</i> , 1998, 12, 999-1023.	1.4	49
30	A theoretical approach to the STM imaging of adsorbates on the graphite surface. <i>Synthetic Metals</i> , 1991, 41, 525-528.	2.1	48
31	The chemical and electronic structure of the interface between aluminum and conjugated polymers. <i>Electrochimica Acta</i> , 1994, 39, 235-244.	2.6	48
32	Electronic structure of sulphur-containing conducting polymers. <i>Synthetic Metals</i> , 1987, 21, 223-228.	2.1	46
33	Morphology and mechanical properties of poly(methylmethacrylate)-b-poly(alkylacrylate)-b-poly(methylmethacrylate). <i>Polymer</i> , 2001, 42, 3503-3514.	1.8	46
34	Controlling the Electrografting of Polymers onto Transition Metal Surfaces through Solvent vs Monomer Adsorption. <i>Journal of the American Chemical Society</i> , 1999, 121, 176-187.	6.6	44
35	Full Electrochemical Synthesis of Conducting Polymer Films Chemically Grafted to Conducting Surfaces. <i>Langmuir</i> , 2002, 18, 5222-5230.	1.6	44
36	Etching Processes of Polytetrafluoroethylene Surfaces Exposed to He and He <sup>+</sup> O <sub>2</sub> Atmospheric Post-discharges. <i>Langmuir</i> , 2012, 28, 9466-9474.	1.6	43

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37	Direct Observation of Microdomain Morphology in "All-Acrylic" Thermoplastic Elastomers Synthesized via Living Radical Polymerization. <i>Langmuir</i> , 1999, 15, 3915-3919.	1.6	41
38	Chemical and electronic aspects of metal/conjugated polymer interfaces. Implications for electronic devices. <i>Synthetic Metals</i> , 1995, 71, 2159-2162.	2.1	40
39	Supramolecular Organization in Fluorene/Indenofluorene- Oligothiophene Alternating Conjugated Copolymers. <i>Advanced Functional Materials</i> , 2005, 15, 1426-1434.	7.8	40
40	Chemisorption of acrylonitrile on the Cu(100) surface: A local density functional study. <i>Journal of Chemical Physics</i> , 1999, 111, 3237-3251.	1.2	38
41	Polymer Coating of Steel by a Combination of Electrografting and Atom-Transfer Radical Polymerization. <i>Macromolecules</i> , 2003, 36, 5926-5933.	2.2	36
42	PLA-PMMA blends: A study by XPS and ToF-SIMS. <i>Applied Surface Science</i> , 2006, 252, 6636-6639.	3.1	35
43	Electronic structure of polyisothianaphthene. <i>Journal of Chemical Physics</i> , 1988, 88, 4257-4262.	1.2	32
44	Polymer layered silicate/carbon nanotube nanocomposites: The catalyzed polymerization approach. <i>Polymer Engineering and Science</i> , 2006, 46, 1022-1030.	1.5	32
45	Synthesis and texturization processes of (super)-hydrophobic fluorinated surfaces by atmospheric plasma. <i>Journal of Materials Research</i> , 2015, 30, 3177-3191.	1.2	32
46	Acrylonitrile on Cu(100): A density functional theoretical study of adsorption and electrochemical grafting. <i>Journal of Chemical Physics</i> , 1996, 105, 3278-3289.	1.2	29
47	Microphase separation at the surface of block copolymers, as studied with atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000, 19, 381-395.	2.5	29
48	Theoretical studies of the aluminum/poly(p-phenylene vinylene) interface. <i>Synthetic Metals</i> , 1993, 57, 4632-4637.	2.1	28
49	Understanding the initial stages of polymer grafting on metals: a photoelectron spectroscopy study of acrylonitrile adsorption on transition metal surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 121, 57-74.	0.8	28
50	Full-Electrochemical Preparation of Conducting/Insulating Binary Polymer Films. <i>Chemistry of Materials</i> , 2001, 13, 1656-1664.	3.2	27
51	Growth and morphology of magnetron sputter deposited silver films. <i>Surface and Coatings Technology</i> , 2002, 151-152, 86-90.	2.2	27
52	New "All-Acrylate" Block Copolymers: Synthesis and Influence of the Architecture on the Morphology and the Mechanical Properties. <i>Macromolecules</i> , 2007, 40, 1055-1065.	2.2	27
53	Morphology and rheology of poly(methyl methacrylate)-block-poly(isooctyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td (acryl) elastomers. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 1250-1258.	1.1	26
54	Controlled nanorubbing of polythiophene thin films for field-effect transistors. <i>Organic Electronics</i> , 2008, 9, 821-828.	1.4	25

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55	Electronic structure of the aluminum/polythiophene interface: A joint experimental and theoretical study. <i>Synthetic Metals</i> , 1991, 43, 3323-3328.	2.1	24
56	Scaling Aspects of the Kinetics of Thermally Induced Phase Separation in Bisphenol A Polycarbonate/Poly(methyl methacrylate) Blends. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7499-7507.	1.2	24
57	Title is missing!. <i>European Physical Journal E</i> , 2001, 6, 387-397.	0.7	24
58	A density functional model for tuning the charge transfer between a transition metal electrode and a chemisorbed molecule via the electrode potential. <i>Journal of Chemical Physics</i> , 2001, 115, 10493.	1.2	24
59	Characterization of the interface dipole at the paraphenylenediamine-nickel interface: A joint theoretical and experimental study. <i>Journal of Chemical Physics</i> , 2005, 122, 084712.	1.2	24
60	Modeling of the solid-state packing of charged chains (PEDOT) in the presence of the counterions (TSA) and the solvent (DEG). <i>Theoretical Chemistry Accounts</i> , 2008, 119, 305-312.	0.5	24
61	Towards a unified description of the charge transport mechanisms in conductive atomic force microscopy studies of semiconducting polymers. <i>Nanoscale</i> , 2014, 6, 10596-10603.	2.8	20
62	The aluminum/polyethylene terephthalate interface: A joint theoretical and experimental study. <i>Journal of Chemical Physics</i> , 1995, 102, 4299-4307.	1.2	18
63	Synthesis and bulk properties of poly(methyl methacrylate)-b-poly(isooctyl acrylate)-b-poly(methyl methacrylate) triblock copolymers. <i>Journal of Polymer Science: Part A: Polymer Chemistry</i> , 2007, 45, 1843-1854.	1.8	18
64	Competitive and synergistic effects between excimer VUV radiation and O radicals on the etching mechanisms of polyethylene and fluoropolymer surfaces treated by an atmospheric He <sup>+</sup> post-discharge. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 315203.	1.3	18
65	Theoretical studies of the aluminum/emeraldine interface. <i>Physical Review B</i> , 1994, 49, 14418-14426.	1.1	17
66	The electronic structure of poly(p-phenylene vinylene). <i>Chemical Physics</i> , 1992, 160, 299-306.	0.9	16
67	Surface organization of single hyperbranched polymer molecules, as studied by atomic force microscopy. <i>Materials Science and Engineering C</i> , 2001, 15, 311-314.	3.8	16
68	Oligothiophene-based nanostructures: from solution to solid-state aggregates. <i>Synthetic Metals</i> , 2004, 147, 67-72.	2.1	16
69	Microscopic morphology of blends between a new all-acrylate radial block copolymer and a rosin ester resin for pressure sensitive adhesives. <i>European Polymer Journal</i> , 2008, 44, 3931-3940.	2.6	16
70	Metal/conjugated polymer interfaces: A local density functional study of aluminum/polyene interactions. <i>Journal of Chemical Physics</i> , 1994, 100, 9258-9264.	1.2	15
71	The electronic structure of emeraldine doped in situ from HCl in the gas phase as studied by photoelectron spectroscopy. <i>Synthetic Metals</i> , 1991, 41, 645-648.	2.1	14
72	Electronic and chemical structure of conjugated polymer surfaces and interfaces: Implications for polymer-based electronic devices. <i>Synthetic Metals</i> , 1997, 85, 1219-1220.	2.1	14

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73	Dynamic force microscopy analysis of block copolymers: beyond imaging the morphology. <i>Applied Surface Science</i> , 2002, 188, 524-533.	3.1	14
74	A combined theoretical and experimental study of the electrochemically induced chemisorption of acrylonitrile on nickel, copper, and zinc. <i>Chemical Physics Letters</i> , 1996, 258, 356-362.	1.2	13
75	Fire and Gas Barrier Properties of Poly(styrene-co-acrylonitrile) Nanocomposites Using Polycaprolactone/Clay Nanohybrid Based-Masterbatch. <i>Advances in Materials Science and Engineering</i> , 2008, 2008, 1-11.	1.0	13
76	Efficient bulk heterojunction photovoltaic cells with a pre-organized poly(3-hexylthiophene) phase. <i>Applied Physics Letters</i> , 2011, 99, 093303.	1.5	13
77	Relation between plasmons and the valence-band density of states in polymethylmethacrylate: Influence of ion irradiation on damage selectivity. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996, 73, 763-778.	0.6	12
78	Microstructure of block copolymers containing a conjugated segment, as studied with atomic force microscopy. <i>Synthetic Metals</i> , 1999, 102, 1279-1282.	2.1	12
79	Plasmons as the primary mechanism of ion-induced modifications in polymers. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 793-815.	0.6	12
80	Outer-Surface-Induced Crystallization of Semirigid Polymer Films. <i>Macromolecules</i> , 2002, 35, 2-5.	2.2	12
81	Adhesive properties of a radial acrylic block co-polymer with a rosin ester resin. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 559-574.	1.4	12
82	A theoretical investigation of the aluminum/polyaniline interface. <i>Synthetic Metals</i> , 1993, 57, 4620-4625.	2.1	11
83	Theoretical Characterization of the Vibrational Properties at the Aluminum/trans-Polyacetylene Interface. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4193-4202.	1.2	11
84	A joint theoretical and experimental study on the electronic properties of phenyl-capped 3,4-ethylenedioxythiophene oligomers. <i>Journal of Chemical Physics</i> , 2003, 119, 10415-10420.	1.2	11
85	Chemical structure and vibrational properties of metal/conjugated polymer interfaces: a theoretical study. <i>Synthetic Metals</i> , 1996, 76, 225-228.	2.1	10
86	Formation of Nanostructured Polymer Surfaces from Combined Relaxation and Crystallization. <i>Macromolecules</i> , 2004, 37, 244-247.	2.2	10
87	Phase-separated microstructures in all-acrylic thermoplastic elastomers. <i>Macromolecular Symposia</i> , 2001, 167, 117-137.	0.4	9
88	Conjugated polymer chains self-assembly: a new method to generate (semi)-conducting nanowires?. <i>Materials Science and Technology</i> , 2002, 18, 749-754.	0.8	9
89	A density-functional theory study of the aluminum/polythiophene interface. <i>Synthetic Metals</i> , 1994, 67, 147-150.	2.1	8
90	Theoretical investigation of nitrogen-containing polyisothianaphthene derivatives. <i>Synthetic Metals</i> , 1995, 69, 691-692.	2.1	8

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91	Photoemission study of copper deposition on the conjugated polymer poly-3-hexylthiophene and comparison with quantum-chemical calculations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996, 78, 355-358.	0.8	8
92	Theoretical investigation of the chemical structure and vibrational signature at the aluminum-polythiophene interface. <i>Synthetic Metals</i> , 1997, 85, 1031-1034.	2.1	8
93	The interaction of aluminum and p-sexiphenyl. <i>Synthetic Metals</i> , 1999, 101, 438-439.	2.1	8
94	Relation between plasmons and ion-induced damaging in cellulosic derivatives. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998, 36, 319-323.	2.4	6
95	Molecular mechanics study of the influence of the alkyl substituents on the packing of the conjugated PEDOT chains. <i>Chemical Physics Letters</i> , 2006, 432, 167-171.	1.2	6
96	Geometric and electronic structure of alkane/benzene, ethylbenzene/benzene, and alkane/ethylbenzene complexes: towards the characterization of polymer alloy composites. <i>Synthetic Metals</i> , 1998, 95, 1-15.	2.1	5
97	The evolution of the electronic structure of polyacetylene, poly(p-phenylene), and the copolymer poly(p-phenylenevinylene) as studied by photoelectron spectroscopy. <i>Synthetic Metals</i> , 1991, 41, 1315-1318.	2.1	3
98	The effects of sulfon on the structural and optical properties in the low-bandgap conjugated polymer poly(3,4-ethylenedioxythiophene). <i>Computational and Theoretical Chemistry</i> , 2004, 709, 195-199.	1.5	3
99	Geometric and electronic structure of the butadiene/benzene complex as a model for the polyene/graphite interface. <i>Synthetic Metals</i> , 1996, 82, 225-229.	2.1	2
100	Doping of poly(3-hexylthiophene) nanofibers: microscopic morphology and electrical properties. <i>EPJ Applied Physics</i> , 2009, 46, 12504.	0.3	2
101	Electronic Structure of Metal/Polymer Interfaces: Aluminum on Conjugated Polymers. , 1991, , 199-212.		1
102	Photoelectron Spectroscopic Study of Polyaniline as a Function of the Electrochemical Potential. <i>Springer Series in Solid-state Sciences</i> , 1989, , 301-304.	0.3	1
103	Block Copolymer Microdomain Morphologies by Phase Detection Imaging. <i>Materials Research Society Symposia Proceedings</i> , 1996, 461, 57.	0.1	0
104	A Scanning Force Microscopy Study of Block Copolymers Containing a Conjugated Segment. <i>Materials Research Society Symposia Proceedings</i> , 1997, 488, 395.	0.1	0
105	One and Two-dimensional Semiconducting Nanostructures Self-assembly of Conjugated Oligomers. <i>Materials Research Society Symposia Proceedings</i> , 2003, 775, 871.	0.1	0
106	Photoemission Study of Copper Deposition on the Conjugated Polymer Poly-3-hexylthiophene and Comparison with Quantum-chemical Calculations. , 1996, , 355-358.		0