Paola Rivolo

List of Publications by Year
in descending order

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84 papers	2,518 citations	159358 30 h-index	214527 47 g-index
85 all docs	85 docs citations	85 times ranked	3771 citing authors

#	Article	IF	Citations
1	Mixed 1Tâ€“2H Phase MoS₂/Reduced Graphene Oxide as Active Electrode for Enhanced Supercapacitive Performance. ACS Applied Materials & Interfaces, 2016, 8, 32842-32852.	4.0	132
2	Vapor-phase self-assembled monolayers of aminosilane on plasma-activated silicon substrates. Journal of Colloid and Interface Science, 2008, 321, 235-241.	5.0	126
3	Surface Treatments and Functional Coatings for Biocompatibility Improvement and Bacterial Adhesion Reduction in Dental Implantology. Coatings, 2016, 6, 7.	1.2	113
4	Inkjet printing and low power laser annealing of silver nanoparticle traces for the realization of low resistivity lines for flexible electronics. Microelectronic Engineering, 2011, 88, 2481-2483.	1.1	106
5	High-Performing and Stable Wearable Supercapacitor Exploiting rGO Aerogel Decorated with Copper and Molybdenum Sulfides on Carbon Fibers. ACS Applied Energy Materials, 2018, 1, 4440-4447.	2.5	88
6	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs. Journal of Physical Chemistry B, 2005, 109, 19711-19718.	1.2	80
7	Bloch surface waves-controlled emission of organic dyes grafted on a one-dimensional photonic crystal. Applied Physics Letters, 2011, 99, .	1.5	75
8	SERS active Ag nanoparticles in mesoporous silicon: detection of organic molecules and peptideâ€“antibody assays. Journal of Raman Spectroscopy, 2012, 43, 730-736.	1.2	70
9	Silver Nanoparticles on Porous Silicon: Approaching Single Molecule Detection in Resonant SERS Regime. Journal of Physical Chemistry C, 2013, 117, 20139-20145.	1.5	63
10	Inkjet-printed PEDOT:PSS electrodes on plasma-modified PDMS nanocomposites: quantifying plasma treatment hardness. RSC Advances, 2014, 4, 51477-51485.	1.7	61
11	Fiber-shaped asymmetric supercapacitor exploiting rGO/Fe2O3 aerogel and electrodeposited MnOx nanosheets on carbon fibers. Carbon, 2019, 144, 91-100.	5.4	61
12	SERS-Active Ag Nanoparticles on Porous Silicon and PDMS Substrates: A Comparative Study of Uniformity and Raman Efficiency. Journal of Physical Chemistry C, 2016, 120, 16946-16953.	1.5	57
13	A Fluorescent One-Dimensional Photonic Crystal for Label-Free Biosensing Based on Bloch Surface Waves. Sensors, 2013, 13, 2011-2022.	2.1	56
14	Local environment of Boron impurities in porous silicon and their interaction withNO2molecules. Physical Review B, 2001, 64, .	1.1	54
15	Real time secondary antibody detection by means of silicon-based multilayers sustaining Bloch surface waves. Sensors and Actuators B: Chemical, 2012, 161, 1046-1052.	4.0	54
16	Ultrasensitive Ag-coated TiO₂nanotube arrays for flexible SERS-based optofluidic devices. Journal of Materials Chemistry C, 2015, 3, 6868-6875.	2.7	54
17	A Nanostructured Porous Silicon Near Insulator Becomes Either a p- or an n-Type Semiconductor upon Gas Adsorption. Advanced Materials, 2005, 17, 528-531.	11.1	51
18	Direct patterning of silver particles on porous silicon by inkjet printing of a silver salt via in-situ reduction. Nanoscale Research Letters, 2012, 7, 502.	3.1	48

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19	Nature and reactivity of Co species in a cobalt-containing beta zeolite: an FTIR study. Catalysis Today, 2001, 70, 107-119.	2.2	47
20	Immobilization of Oligonucleotides on Metal-Dielectric Nanostructures for miRNA Detection. Analytical Chemistry, 2016, 88, 9554-9563.	3.2	41
21	SERS active silver nanoparticles synthesized by inkjet printing on mesoporous silicon. Nanoscale Research Letters, 2014, 9, 527.	3.1	40
22	Multiple resistive switching in coreâ€“shell ZnO nanowires exhibiting tunable surface states. Journal of Materials Chemistry C, 2017, 5, 10517-10523.	2.7	40
23	A biofunctional polymeric coating for microcantilever molecular recognition. Analytica Chimica Acta, 2008, 630, 161-167.	2.6	39
24	Doubly resonant porous silicon microcavities for enhanced detection of fluorescent organic molecules. Sensors and Actuators B: Chemical, 2009, 137, 467-470.	4.0	39
25	SERS-active metal-dielectric nanostructures integrated in microfluidic devices for label-free quantitative detection of miRNA. Faraday Discussions, 2017, 205, 271-289.	1.6	39
26	Easy Tuning of Surface and Optical Properties of PDMS Decorated by Ag Nanoparticles. Journal of Physical Chemistry B, 2015, 119, 8194-8200.	1.2	32
27	Surface functionalisation of polypropylene hernia-repair meshes by RF-activated plasma polymerisation of acrylic acid and silver nanoparticles. Applied Surface Science, 2015, 328, 287-295.	3.1	32
28	Surface-enhanced Raman spectroscopy on porous silicon membranes decorated with Ag nanoparticles integrated in elastomeric microfluidic chips. RSC Advances, 2016, 6, 21865-21870.	1.7	32
29	Oxidised porous silicon impregnated with Congo Red for chemical sensoring applications. Sensors and Actuators B: Chemical, 2004, 100, 99-102.	4.0	31
30	On diamond surface properties and interactions with neurons. European Physical Journal E, 2009, 30, 149-56.	0.7	31
31	Surface functionalization by poly-acrylic acid plasma-polymerized films for microarray DNA diagnostics. Surface and Coatings Technology, 2012, 207, 389-399.	2.2	31
32	Enhanced fluorescence detection of miRNA-16 on a photonic crystal. Analyst, The, 2015, 140, 5459-5463.	1.7	31
33	Binder Free and Flexible Asymmetric Supercapacitor Exploiting Mn3O4 and MoS2 Nanoflakes on Carbon Fibers. Nanomaterials, 2020, 10, 1084.	1.9	30
34	A polymer-based functional pattern on one-dimensional photonic crystals for photon sorting of fluorescence radiation. Optics Express, 2012, 20, 6703.	1.7	29
35	Early Response of Fibroblasts and Epithelial Cells to Pink-Shaded Anodized Dental Implant Abutments: An In Vitro Study. International Journal of Oral and Maxillofacial Implants, 2018, 33, 571-579.	0.6	27
36	IR detection of NO2 using p+ porous silicon as a high sensitivity sensor. Chemical Communications, 2001, , 2196-2197.	2.2	25

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37	Joint FTIR and TPD study of hydrogen desorption from p-type porous silicon. Physica Status Solidi A, 2003, 197, 217-221.	1.7	25
38	Protein immobilization on nanoporous silicon functionalized by RF activated plasma polymerization of Acrylic Acid. Journal of Colloid and Interface Science, 2014, 416, 73-80.	5.0	25
39	Angularly resolved ellipsometric optical biosensing by means of Bloch surface waves. Analytical and Bioanalytical Chemistry, 2015, 407, 3965-3974.	1.9	25
40	Bloch surface wave label-free and fluorescence platform for the detection of VEGF biomarker in biological matrices. Sensors and Actuators B: Chemical, 2018, 255, 2143-2150.	4.0	25
41	Memristive behaviour in poly-acrylic acid coated TiO₂nanotube arrays. Nanotechnology, 2016, 27, 485208.	1.3	24
42	In vitro characterization of two different atmospheric plasma jet chemical functionalizations of titanium surfaces. Applied Surface Science, 2017, 409, 314-324.	3.1	24
43	SERSâ€active substrates based on silvered porous silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1736-1739.	0.8	21
44	Graphene/Ruthenium Active Species Aerogel as Electrode for Supercapacitor Applications. Materials, 2018, 11, 57.	1.3	21
45	New branched flower-like Ag nanostructures for SERS analysis. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123600.	2.3	21
46	Application of Reverse Micelle Solâ€“Gel Synthesis for Bulk Doping and Heteroatoms Surface Enrichment in Mo-Doped TiO2 Nanoparticles. Materials, 2019, 12, 937.	1.3	21
47	Optimization and characterization of a homogeneous carboxylic surface functionalization for silicon-based biosensing. Colloids and Surfaces B: Biointerfaces, 2016, 143, 252-259.	2.5	20
48	Role of surface finishing on the in vitro biological properties of a silicon nitrideâ€“titanium nitride (Si3N4â€“TiN) composite. Journal of Materials Science, 2017, 52, 467-477.	1.7	20
49	A Facile and Green Synthesis of a MoO2-Reduced Graphene Oxide Aerogel for Energy Storage Devices. Materials, 2020, 13, 594.	1.3	20
50	Bloch surface wave enhanced biosensor for the direct detection of Angiopoietin-2 tumor biomarker in human plasma. Biomedical Optics Express, 2018, 9, 529.	1.5	19
51	Free carriers reactivation on p+-mesoporous silicon through ammonia adsorption: a FTIR study. Sensors and Actuators B: Chemical, 2004, 100, 205-208.	4.0	17
52	Effective Inclusion of Sizable Amounts of Mo within TiO₂ Nanoparticles Can Be Obtained by Reverse Micelle Solâ€“Gel Synthesis. ACS Omega, 2021, 6, 5379-5388.	1.6	16
53	Porous silicon in NO2: A chemisorption mechanism for enhanced electrical conductivity. Physica Status Solidi A, 2003, 197, 103-106.	1.7	15
54	Surface modification of cell culture carriers: Routes to anhydride functionalization of polystyrene. Colloids and Surfaces B: Biointerfaces, 2012, 90, 41-47.	2.5	15

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55	Hydrogenated amorphous silicon coatings may modulate gingival cell response. Applied Surface Science, 2018, 436, 603-612.	3.1	15
56	Beneficial effect of Fe addition on the catalytic activity of electrodeposited MnOx films in the water oxidation reaction. Electrochimica Acta, 2018, 284, 294-302.	2.6	13
57	Chemisorption of NO2at Boron Sites at the Surface of Nanostructured Mesoporous Silicon. Journal of Physical Chemistry B, 2004, 108, 18306-18310.	1.2	12
58	Reverse Micelle Strategy for the Synthesis of MnO_xâ€“TiO₂ Active Catalysts for NH₃-Selective Catalytic Reduction of NO_x at Both Low Temperature and Low Mn Content. ACS Omega, 2021, 6, 24562-24574.	1.6	12
59	A new route to the surface functionalisation of porous silicon. Sensors and Actuators B: Chemical, 2004, 100, 29-32.	4.0	11
60	A novel graphene based nanocomposite for application in 3D flexible micro-supercapacitors. Materials Research Express, 2016, 3, 065001.	0.8	11
61	Optical and structural properties of amorphous silicon-nitrides and silicon-oxycarbides: Application of multilayer structures for the coupling of Bloch Surface Waves. Journal of Non-Crystalline Solids, 2016, 453, 113-117.	1.5	11
62	Free carriers reactivation in mesoporous p-type silicon by ammonia condensation: an FTIR study. Physica Status Solidi A, 2003, 197, 458-461.	1.7	10
63	Study of the adhesive properties versus stability/aging of hernia repair meshes after deposition of RF activated plasma polymerized acrylic acid coating. Materials Science and Engineering C, 2016, 65, 287-294.	3.8	10
64	Graphenic Aerogels Decorated with Ag Nanoparticles as 3D SERS Substrates for Biosensing. Particle and Particle Systems Characterization, 2020, 37, 2000095.	1.2	9
65	Beta1-integrin and TRPV4 are involved in osteoblast adhesion to different titanium surface topographies. Applied Surface Science, 2020, 507, 145112.	3.1	8
66	Switching of fluorescence mediated by a peroxynitriteâ€“glutathione redox reaction in a porous silicon nanoreactor. Physical Chemistry Chemical Physics, 2012, 14, 5251.	1.3	7
67	Lift-Off Assisted Patterning of Few Layers Graphene. Micromachines, 2019, 10, 426.	1.4	7
68	Modeling of electrochemical capacitors under dynamical cycling. Electrochimica Acta, 2019, 296, 709-718.	2.6	7
69	Fluorescence imaging assisted by surface modes on dielectric multilayers. European Physical Journal D, 2014, 68, 1.	0.6	6
70	Tips and Tricks for the Surface Engineering of Wellâ€Ordered Morphologically Driven Silverâ€Based Nanomaterials. ChemistryOpen, 2019, 8, 508-519.	0.9	6
71	Boron passivation and its reactivation in mesoporous silicon: a â€œchemicalâ€•model. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1567-1570.	0.8	5
72	Hydrophobic Scratch Resistant UV-Cured Epoxy Coating. Macromolecular Materials and Engineering, 2016, 301, 93-98.	1.7	4

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73	Cysteine-mediated synthesis of silver nanonets and their use for Surface Enhanced Raman Scattering (SERS). Materials Letters, 2019, 247, 208-210.	1.3	4
74	SiNx/a-SiCx:H passivation layers for p- and n-type crystalline silicon wafers. Thin Solid Films, 2008, 516, 1569-1573.	0.8	3
75	Ultra-Thin Plasma-Polymerized Functional Coatings for Biosensing: Polyacrylic Acid, Polystyrene and Their Co-Polymer. , 2016, , .		2
76	Real-Time Monitoring of the In Situ Microfluidic Synthesis of Ag Nanoparticles on Solid Substrate for Reliable SERS Detection. Biosensors, 2021, 11, 520.	2.3	2
77	Carriers reactivation in p+-type porous silicon accompanies hydrogen desorption. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3193-3197.	0.8	1
78	New Sensing Strategies Based on Surface Modes in Photonic Crystals. , 2015, , 321-337.		1
79	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs.. ChemInform, 2006, 37, no.	0.1	0
80	Controlled fluorescence emission via surface modes on dielectric and metallo-dielectric multistack. , 2012, , .		0
81	Bloch Surface Waves on Dielectric Photonic Crystals for Biological Sensing. Lecture Notes in Electrical Engineering, 2014, , 107-111.	0.3	0
82	Optical Sensing with All-Dielectric Photonic Crystals. , 2016, , .		0
83	SERS-active Metal-dielectric Nanostructures Integrated in Microfluidic Devices for Ultra-sensitive Label-free miRNA Detection. Procedia Technology, 2017, 27, 37-38.	1.1	0
84	Graphene-Metal Nanostructures as Surface Enhanced Raman Scattering Substrates for Biosensing. Procedia Technology, 2017, 27, 236-237.	1.1	0