

Marilena Carbone

List of Publications by Year in descending order

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95
papers

2,417
citations

186209

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46
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docs citations

98
times ranked

3067
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver nanoparticles in polymeric matrices for fresh food packaging. <i>Journal of King Saud University - Science</i> , 2016, 28, 273-279.	1.6	353
2	Screen-Printed Electrodes Modified with Carbon Nanomaterials: A Comparison among Carbon Black, Carbon Nanotubes and Graphene. <i>Electroanalysis</i> , 2015, 27, 2230-2238.	1.5	112
3	An Overview of the Latest Graphene-Based Sensors for Glucose Detection: the Effects of Graphene Defects. <i>Electroanalysis</i> , 2015, 27, 16-31.	1.5	91
4	Atomic-scale desorption of H atoms from the Si(100)2 \times 1:H surface: Inelastic electron interactions. <i>Physical Review B</i> , 2003, 68, .	1.1	79
5	Atomic wire fabrication by STM induced hydrogen desorption. <i>Surface Science</i> , 2003, 528, 121-126.	0.8	77
6	Carbon nanostructured materials for applications in nano-medicine, cultural heritage, and electrochemical biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 451-465.	1.9	70
7	Gellan hydrogel as a powerful tool in paper cleaning process: A detailed study. <i>Journal of Colloid and Interface Science</i> , 2014, 416, 205-211.	5.0	66
8	Novel carbon black-cobalt phthalocyanine nanocomposite as sensing platform to detect organophosphorus pollutants at screen-printed electrode. <i>Electrochimica Acta</i> , 2016, 188, 574-581.	2.6	64
9	High-resolution photoemission study of ethanol on Si(100)2 \times 1. <i>Surface Science</i> , 2000, 447, 237-244.	0.8	62
10	Methanol adsorption on Si(100)2 \times 1 investigated by high-resolution photoemission. <i>Surface Science</i> , 2002, 505, 251-259.	0.8	55
11	Modified Screen-Printed Electrodes Based on Oxidized Graphene Nanoribbons for the Selective Electrochemical Detection of Several Molecules. <i>Electroanalysis</i> , 2012, 24, 872-881.	1.5	54
12	Structural study by energy dispersive X-ray diffraction of amorphous mixed hydroxycarbonates containing Co, Cu, Zn, Al. <i>Journal of Materials Chemistry</i> , 1996, 6, 1709.	6.7	49
13	Atom-Specific Identification of Adsorbed Chiral Molecules by Photoemission. <i>Physical Review Letters</i> , 2005, 95, 107601.	2.9	45
14	Kinetics of gypsum dehydration at reduced pressure: an energy dispersive X-ray diffraction study. <i>European Journal of Mineralogy</i> , 2008, 20, 621-627.	0.4	43
15	NiO morphology dependent optical and electrochemical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 178-182.	2.3	43
16	Palladium (II) and platinum (II) aqueous solutions. Evidence for the solvation of the [PdCl ₄] ²⁻ and [PtCl ₄] ²⁻ ions. <i>Journal of Molecular Liquids</i> , 1998, 75, 149-158.	2.3	42
17	Morphology and structure of electrospun CoFe ₂ O ₄ /multi-wall carbon nanotubes composite nanofibers. <i>Chemical Engineering Journal</i> , 2010, 162, 430-435.	6.6	41
18	Oxidized Graphene in Ionic Liquids for Assembling Chemically Modified Electrodes: A Structural and Electrochemical Characterization Study. <i>Analytical Chemistry</i> , 2012, 84, 5823-5831.	3.2	41

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19	Glassy carbon electrodes modified with hemin-carbon nanomaterial films for amperometric H ₂ O ₂ and NO ₂ ⁻ detection. <i>Electrochimica Acta</i> , 2012, 63, 37-46.	2.6	40
20	Enhanced performances of sensors based on screen printed electrodes modified with nanosized NiO particles. <i>Electrochimica Acta</i> , 2017, 246, 580-587.	2.6	40
21	Graphene oxide nanoribbons (GNO), reduced graphene nanoribbons (GNR), and multi-layers of oxidized graphene functionalized with ionic liquids (GO ⁻ IL) for assembly of miniaturized electrochemical devices. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3449-3474.	1.9	38
22	Top-Down N-Doped Carbon Quantum Dots for Multiple Purposes: Heavy Metal Detection and Intracellular Fluorescence. <i>Nanomaterials</i> , 2021, 11, 2249.	1.9	38
23	A high resolution photoemission study of phenol adsorption on Si(100)2 $\bar{1}$. <i>Surface Science</i> , 2005, 582, 42-48.	0.8	37
24	Graphene and ionic liquids new gel paste electrodes for caffeic acid quantification. <i>Sensors and Actuators B: Chemical</i> , 2015, 212, 248-255.	4.0	36
25	Zn defective ZnCo ₂ O ₄ nanorods as high capacity anode for lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2018, 815, 151-157.	1.9	36
26	New cleaning strategies based on carbon nanomaterials applied to the deteriorated marble surfaces: A comparative study with enzyme based treatments. <i>Applied Surface Science</i> , 2012, 258, 5965-5980.	3.1	35
27	Synchrotron radiation photoemission and photostimulated desorption of deuterated methanol on Si(111)7 $\bar{7}$ and Si(100)2 $\bar{1}$. <i>Surface Science</i> , 1996, 352-354, 391-395.	0.8	33
28	Adsorption of 2,3-butanediol on Si(1 0 0). <i>Surface Science</i> , 2004, 559, 179-185.	0.8	31
29	Ethylene adsorption on Si(100)2 $\bar{1}$: a high-resolution photoemission study. <i>Physical Review B</i> , 2000, 62, 17128-17133.	1.1	27
30	Adsorption of ethylene on Si(111)7 $\bar{7}$ by synchrotron radiation photoemission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 76, 271-276.	0.8	26
31	Exogenous control over intracellular acidification: Enhancement via proton caged compounds coupled to gold nanoparticles. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 2304-2307.	1.1	24
32	Cu Zn Co nanosized mixed oxides prepared from hydroxycarbonate precursors. <i>Journal of Alloys and Compounds</i> , 2016, 688, 202-209.	2.8	24
33	NiO Pseudocapacitance and Optical Properties: Does The Shape Win?. <i>Materials</i> , 2020, 13, 1417.	1.3	24
34	Sensor Properties of Pristine and Functionalized Carbon Nanohorns. <i>Electroanalysis</i> , 2016, 28, 2489-2499.	1.5	23
35	Supramolecular Structure of Extrinsicly Chiral Porphyrin Hetero π -Assemblies and Achiral Analogues. <i>Advanced Materials</i> , 2007, 19, 3961-3967.	11.1	22
36	CQDs@NiO: An Efficient Tool for CH ₄ Sensing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6251.	1.3	20

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37	Methanol adsorption on the Si(100)-2 Å ⁻¹ surface: a first-principles calculation. Journal of Physics Condensed Matter, 2005, 17, 1289-1300.	0.7	19
38	Dissociative versus molecular adsorption of phenol on $\text{Si}(100)\text{-}2\text{\AA}^{-1}$ surface: A first-principles calculation. Physical Review B, 2007, 76, .	1.1	19
39	Toluene adsorption on Si(7 Å ⁻¹) studied by synchrotron-radiation photoemission. Surface Science, 2002, 498, 186-192.	0.8	18
40	Fragmentation pathways of acetic acid upon adsorption on Si(100)2 Å ⁻¹ . Surface Science, 2008, 602, 852-858.	0.8	17
41	ADSORPTION STATES AND SITE CONVERSIONS OF PHENYLACETYLENE ON $\text{Si}(100)\text{-}2\text{\AA}^{-1}$ CALCULATED BY DFT. Journal of Theoretical and Computational Chemistry, 2012, 11, 1089-1099.	1.8	17
42	NiO Grained-Flowers and Nanoparticles for Ethanol Sensing. Materials, 2020, 13, 1880.	1.3	17
43	Antimicrobial power of Cu/Zn mixed oxide nanoparticles to Escherichia coli. Environmental Nanotechnology, Monitoring and Management, 2017, 7, 97-102.	1.7	16
44	Different role of filled and empty surface states in a polyfunctional molecule adsorption: Geranyl acetone on Si(111)7 Å ⁻¹ . Journal of Chemical Physics, 2002, 117, 5012-5017.	1.2	15
45	Thermal Properties, Raman Spectroscopy and Tem Images of Neutron-Bombarded Graphite. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 634-643.	1.0	15
46	Unraveling the real pigment composition of tattoo inks: the case of bi-components phthalocyanine based greens. Dyes and Pigments, 2019, 167, 225-235.	2.0	15
47	Novel Thienyl DPP derivatives Functionalized with Terminal Electron-Acceptor Groups: Synthesis, Optical Properties and OFET Performance. Chemistry - A European Journal, 2022, 28, .	1.7	15
48	Initial stage of NO adsorption on Si(100)-(2 Å ⁻¹) studied by synchrotron radiation photoemission and photodesorption. Surface Science, 2000, 467, 49-57.	0.8	14
49	Photon-stimulated desorption and fragmentation processes: formic acid on Si(111)7 Å ⁻¹ . Chemical Physics, 2003, 289, 93-106.	0.9	14
50	A combined electrochemical, infrared and EDXD tool to disclose Deep Eutectic Solvents formation when one precursor is liquid: Glyceline as case study. Journal of Molecular Liquids, 2020, 319, 114292.	2.3	14
51	Monitoring and manipulation of the pH of single cells using infrared spectromicroscopy and a molecular switch. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 2989-2993.	1.1	13
52	Kinetic and spectroscopic studies on the chiral self-aggregation of amphiphilic zinc and copper (<sc>I</sc>)-prolinate-tetraarylporphyrin derivatives in different aqueous media. Organic and Biomolecular Chemistry, 2019, 17, 1113-1120.	1.5	12
53	Treatments of a phthalocyanine-based green ink for tattoo removal purposes: generation of toxic fragments and potentially harmful morphologies. Archives of Toxicology, 2020, 94, 2359-2375.	1.9	12
54	NiO-Based Electronic Flexible Devices. Applied Sciences (Switzerland), 2022, 12, 2839.	1.3	12

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55	Coverage effects on phenol adsorption on Si(100)2Å ⁻¹ as: A first principle calculation. Surface Science, 2009, 603, 611-619.	0.8	11
56	Room Temperature Syntheses of ZnO and Their Structures. Symmetry, 2021, 13, 733.	1.1	11
57	X-ray scattering studies of palladium (II) and platinum (II) aqueous solutions. Journal of Molecular Liquids, 1996, 70, 55-70.	2.3	10
58	Are PEI-coated SWCNTs conjugated with hepatitis A virus? A chemical study with SEM, Z -potential, EDXD and RT-PCR. Biomedical Materials (Bristol), 2010, 5, 035001.	1.7	10
59	Selective ion photodesorption from NO adsorbed on Si(111)7Å ⁻⁷ following core excitation. Journal of Chemical Physics, 2003, 119, 515-523.	1.2	9
60	Synthesis of proton caged disulphide compounds for gold nanoparticle functionalization. New Journal of Chemistry, 2015, 39, 2489-2496.	1.4	9
61	Ion photon-stimulated desorption as a tool to monitor the physisorption to chemisorption transition of benzene on Si(111) 7 Å 7. Journal of Physics Condensed Matter, 2003, 15, L327-L334.	0.7	8
62	Nickel(II) 3,4,9,10-Perylenediimide bis-Phosphonate Pentahydrate: A Metal-Organic Ferromagnetic Dye. Inorganic Chemistry, 2012, 51, 7332-7339.	1.9	8
63	Oxidation of the 8 Å ⁻⁸ -reconstructed $\hat{1}^2$ -Si3N4(0 0 0 1) surface: A photoemission study. Applied Surface Science, 2015, 355, 93-97.	3.1	8
64	C1score-level photoemission spectra of stilbene onSi(100)2Å ⁻¹ surface from first-principles calculations. Physical Review B, 2007, 75, .	1.1	7
65	Ruthenium and manganese metalloporphyrins modified screen-printed electrodes for bio-relevant electroactive targets. Journal of Porphyrins and Phthalocyanines, 2018, 22, 491-500.	0.4	7
66	Detection of Heavy Metals in Water Using Graphene Oxide Quantum Dots: An Experimental and Theoretical Study. Molecules, 2021, 26, 5519.	1.7	7
67	Recent Advances in the Synthesis of Inorganic Materials Using Environmentally Friendly Media. Molecules, 2022, 27, 2045.	1.7	7
68	Organometallic Oligomer Resolved by Radial Distribution Function of X-ray Diffraction Analysis. Journal of Physical Chemistry B, 2010, 114, 2359-2364.	1.2	6
69	Adsorption of formic acid on Si(111)7Å ⁻⁷ at room temperature: a valence band photoemission and Si2p _{0,8} photodesorption study. Surface and Interface Analysis, 2015, 47, 216-221.		6
70	A new analytical approach to characterize the effect of $\hat{1}^3$ -ray sterilization on wood. Microchemical Journal, 2018, 143, 493-502.	2.3	6
71	Achieving cytochrome c fibril/aggregate control towards micro-platelets and micro-fibers by tuning pH and protein concentration: A combined morphological and spectroscopic analysis. International Journal of Biological Macromolecules, 2019, 138, 106-115.	3.6	6
72	Chemistry through Tattoo Inks: A Multilevel Approach to a Practice on the Rise for Eliciting Interest in Chemical Education. Journal of Chemical Education, 2021, 98, 1309-1320.	1.1	6

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73	Interaction between single wall carbon nanotubes and a human enteric virus. <i>Journal of Virological Methods</i> , 2010, 168, 1-5.	1.0	5
74	Nanomaterials applied in medicine, cultural heritage and chemical sensor technology. <i>International Journal of Nanotechnology</i> , 2013, 10, 508.	0.1	5
75	A comparative chemisorption study of acrylic, vinyl acetic, fumaric, maleic and tartaric acid on Si(1 0) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	5
76	New Insights into the Structure of Glycols and Derivatives: A Comparative X-Ray Diffraction, Raman and Molecular Dynamics Study of Ethane-1,2-Diol, 2-Methoxyethan-1-ol and 1,2-Dimethoxy Ethane. <i>Crystals</i> , 2020, 10, 1011.	1.0	5
77	Functionalization of Gold Nanoparticles with Ru-Porphyrin and Their Selectivity in the Oligomerization of Alkynes. <i>Materials</i> , 2022, 15, 1207.	1.3	5
78	Polyethylene Structure as a Function of Temperature: An EDXD Investigation. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 1005-1014.	0.4	4
79	Adsorption of 2-vinyl thiophene on Si(100)2 Å– 1: A van Der Waals corrected DFT study. <i>Journal of Theoretical and Computational Chemistry</i> , 2015, 14, 1550011.	1.8	4
80	Stable dispersions of single-walled carbon nanotubes. <i>International Journal of Environment and Health</i> , 2009, 3, 285.	0.3	3
81	Bi-verse relationship between gold nanoparticles and intracellular pH. <i>Journal of King Saud University - Science</i> , 2017, 29, 284-290.	1.6	3
82	SMALL MOLECULES ADSORBED ON SILICON SURFACES: TWO CASES THROUGH TIME. <i>Surface Review and Letters</i> , 2017, 24, 1830001.	0.5	3
83	Multiple options for phenol on Si(111)7 Å– 7 revealed by high resolution photoemission. <i>Surface Science</i> , 2020, 692, 121510.	0.8	3
84	âœFor Asia Market Onlyâœ A Green Tattoo Ink between Safety and Regulations. <i>Molecules</i> , 2022, 27, 3491.	1.7	3
85	Exogenous control over intracellular acidification: Enhancement via proton caged compounds coupled to gold nanoparticles and an alternative pathway with DMSO. <i>Data in Brief</i> , 2016, 6, 745-749.	0.5	2
86	Î±-Amino Thiophene on Si(100)2 Å– 1: Adsorption and transition states investigated by van der Waals corrected DFT and CI-NEB. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1740001.	1.8	2
87	Laser vs. thermal treatments of green pigment PG36: coincidence and toxicity of processes. <i>Archives of Toxicology</i> , 2021, 95, 2367-2383.	1.9	2
88	An experimental and theoretical study of the resonant Auger spectrum of the ethene molecule. <i>New Journal of Physics</i> , 2014, 16, 073022.	1.2	1
89	Modulating intracellular acidification by regulating the incubation time of proton caged compounds. <i>European Biophysics Journal</i> , 2016, 45, 565-571.	1.2	1
90	Pathways of NO adsorption on Si(100)2 Å– 1 by van der Waals corrected DFT. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1750009.	1.8	1

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91	Comparative treatments of a green tattoo ink with Ruby, Nd:YAG nano- and picosecond lasers in normal and array mode. Scientific Reports, 2022, 12, 3571.	1.6	1
92	Higher fullerenes: Compositional analysis by EDXD and molecular dynamics. , 2014, , .		0
93	Brominated carbon black: An EDXD study. , 2014, , .		0
94	Cytochrome c aggregation: A dataset at and far from the isoelectric point. Data in Brief, 2020, 28, 104842.	0.5	0
95	Influence of Cortisol on the Fibril Formation Kinetics of A β 242 Peptide: A Multi-Technical Approach. International Journal of Molecular Sciences, 2022, 23, 6007.	1.8	0