

Raffaele Giuseppe Agostino

List of Publications by Year in descending order

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115
papers

2,507
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201385

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233125

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117
docs citations

117
times ranked

2907
citing authors

#	ARTICLE	IF	CITATIONS
1	Architectural Terracruda Sculptures of the Silk Roads: New Conservation Insights Through a Diagnostic Approach Based on Non-Destructive X-ray Micro-Computed Tomography. <i>Studies in Conservation</i> , 2022, 67, 209-221.	0.6	9
2	Preparation of foamed and unfoamed geopolymer/NaX zeolite/activated carbon composites for CO2 adsorption. <i>Journal of Cleaner Production</i> , 2022, 330, 129843.	4.6	34
3	Hexagonal Mesoporous Silica for carbon capture: Unrevealing CO2 microscopic dynamics by Nuclear Magnetic Resonance. <i>Journal of CO2 Utilization</i> , 2022, 55, 101809.	3.3	13
4	Exploring Compound Eyes in Adults of Four Coleopteran Species Using Synchrotron X-ray Phase-Contrast Microtomography (SR-PhC Micro-CT). <i>Life</i> , 2022, 12, 741.	1.1	3
5	Quaternized polyepichlorohydrin-based membrane as high-selective CO2 sorbent for cost-effective carbon capture. <i>Journal of CO2 Utilization</i> , 2022, 63, 102135.	3.3	7
6	Hydrogen storage performance of methyl-substituted mesoporous silica with tailored textural characteristics. <i>Journal of Porous Materials</i> , 2021, 28, 1049.	1.3	5
7	The Deltah Lab, a New Multidisciplinary European Facility to Support the H2 Distribution & Storage Economy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3272.	1.3	3
8	Neutronic Calculations for the Shielding Design of the VESPA Instrument at the European Spallation Source. <i>Journal of Surface Investigation</i> , 2020, 14, S190-S194.	0.1	0
9	Assessment of poly(L-lactide) as an environmentally benign CO2 capture and storage adsorbent. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49587.	1.3	7
10	Electronic band structure of three-dimensional topological insulators with different stoichiometry composition. <i>Physical Review B</i> , 2020, 102, .	1.1	3
11	Assessment of activated carbon fibers from commercial Kevlar® as nanostructured material for gas storage: Effect of activation procedure and adsorption of CO2 and CH4. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 152, 104974.	2.6	29
12	Pinecone-Derived Activated Carbons as an Effective Medium for Hydrogen Storage. <i>Energies</i> , 2020, 13, 2237.	1.6	21
13	Posidonia Oceanica and Wood chips activated carbon as interesting materials for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14038-14047.	3.8	48
14	Hydrogen storage performances for mesoporous silica synthesized with mixed tetraethoxysilane and methyltriethoxysilane precursors in acidic condition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 125040.	2.3	18
15	Zinc(II) tetraphenylporphyrin on Au(111) investigated by scanning tunnelling microscopy and photoemission spectroscopy measurements. <i>Nanotechnology</i> , 2020, 31, 365603.	1.3	8
16	Analysis of extruded pins manufactured by friction stir forming for multi-material joining purposes. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	8
17	Adsorption of Nile Red Self-Assembled Monolayers on Au(111). <i>Langmuir</i> , 2019, 35, 14761-14768.	1.6	3
18	Command and control system for the STAR X-ray source. <i>Fusion Engineering and Design</i> , 2019, 146, 1947-1953.	1.0	1

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19	CO ₂ Adsorption Investigation on an Innovative Nanocomposite Material with Hierarchical Porosity. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3223-3231.	0.9	7
20	Status of compact inverse Compton sources in Italy: BriXS and STAR. , 2019, , .		11
21	Characterization of graphene grown on copper foil by chemical vapor deposition (CVD) at ambient pressure conditions. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1006-1014.	1.2	19
22	Surface modification of molecular sieve fillers for mixed matrix membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 333-342.	2.3	12
23	Tailoring mesoporous silica by functionalization for gases (H ₂ , CH ₄), Tj ETQq1 1 0.784314 rgBT /Overlock 10 810-819.	1.0	9
24	Deep Insight Into the Electronic Structure of Ternary Topological Insulators: A Comparative Study of PbBi ₄ Te ₇ and PbBi ₆ Te ₁₀ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800341.	1.2	12
25	Low Pressure Methane Storage in Pinecone-Derived Activated Carbons. <i>Energy & Fuels</i> , 2018, 32, 10891-10897.	2.5	14
26	TCNQ Physisorption on the Topological Insulator Bi ₂ Se ₃ . <i>ChemPhysChem</i> , 2018, 19, 2405-2410.	1.0	6
27	Assessment methodology of promising porous materials for near ambient temperature hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14550-14556.	3.8	12
28	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. <i>Journal of Imaging</i> , 2018, 4, 47.	1.7	50
29	Different spectroscopic behavior of coupled and freestanding monolayer graphene deposited by CVD on Cu foil. <i>Applied Surface Science</i> , 2018, 458, 580-585.	3.1	7
30	Assessment of commercial poly(ϵ -caprolactone) as a renewable candidate for carbon capture and utilization. <i>Journal of CO₂ Utilization</i> , 2017, 19, 185-193.	3.3	20
31	Reduced methanol crossover and enhanced proton transport in nanocomposite membranes based on clay-CNTs hybrid materials for direct methanol fuel cells. <i>Ionics</i> , 2017, 23, 2113-2123.	1.2	28
32	Modelling of adsorption of textile dyes over multi-walled carbon nanotubes: Equilibrium and kinetic. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 523-532.	1.7	42
33	Study of Adsorption Behavior of Multi-Walled Carbon Nanotubes Towards Dyes Applied in Textile Applications. <i>Advanced Science Letters</i> , 2017, 23, 5851-5854.	0.2	5
34	Virtual unrolling and deciphering of Herculaneum papyri by X-ray phase-contrast tomography. <i>Scientific Reports</i> , 2016, 6, 27227.	1.6	27
35	Microtomographic studies as a tool in the identification of a new ceramic class: The metal-imitating pottery as grave goods among Brettians and Lucanians. <i>Microchemical Journal</i> , 2016, 126, 138-148.	2.3	12
36	Enhanced hydrogen and methane storage of hybrid mesoporous organosilicas. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9275-9285.	5.2	10

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37	Resistance to the transport of H ₂ through the external surface of as-made and modified silicalite-1 (MFI). <i>Microporous and Mesoporous Materials</i> , 2016, 220, 290-297.	2.2	15
38	Liquid-like Hydrogen in the Ultra-Micropores of Commercial Activated Carbons. ECS Meeting Abstracts, 2016, , .	0.0	0
39	Liquid-like hydrogen in the micropores of commercial activated carbons. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14562-14572.	3.8	27
40	Chemical Bonds and Charge-Transfer Dynamics of a Dye-“Hierarchical-TiO ₂ Hybrid Interface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8671-8680.	1.5	7
41	Thermally induced evolution of sol-gel grown WO ₃ films on ITO/glass substrates. <i>Applied Surface Science</i> , 2014, 297, 195-204.	3.1	21
42	Hydrogen storage in ordered and disordered phenylene-bridged mesoporous organosilicas. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2104-2114.	3.8	17
43	Cu-BTC/Aminated Graphite Oxide Composites As High-Efficiency CO ₂ Capture Media. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 101-108.	4.0	89
44	Methane storage in zeolite-like carbon materials. <i>Microporous and Mesoporous Materials</i> , 2014, 188, 16-22.	2.2	55
45	Volumetric apparatus for hydrogen adsorption and diffusion measurements: Sources of systematic error and impact of their experimental resolutions. <i>Review of Scientific Instruments</i> , 2013, 84, 103907.	0.6	56
46	Higher methane storage at low pressure and room temperature in new easily scalable large-scale production activated carbon for static and vehicular applications. <i>Fuel</i> , 2013, 104, 813-821.	3.4	86
47	Naphthalene-based periodic nanoporous organosilicas: II. Hydrogen and methane adsorption and physicochemical study. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 332-338.	2.2	12
48	Naphthalene-based periodic nanoporous organosilicas: I. Synthesis and structural characterization. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 324-331.	2.2	7
49	Island Organization of TiO ₂ Hierarchical Nanostructures Induced by Surface Wetting and Drying. <i>Langmuir</i> , 2011, 27, 1935-1941.	1.6	12
50	Surface electronic and structural properties of nanostructured titanium oxide grown by pulsed laser deposition. <i>Surface Science</i> , 2011, 605, 333-340.	0.8	62
51	Cationic Tubules with Tunable Charge. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6604-6607.	7.2	55
52	A spectro-microscopic investigation of Fe-Co bimetallic catalysts supported on MgO for the production of thin carbon nanotubes. <i>Carbon</i> , 2010, 48, 3434-3445.	5.4	35
53	Raman Scattering Enhancement Associated to Sodium Oxide Formation after Thermal Treatment of Glass Substrates. , 2010, , .		0
54	Collective Excitations in Nanoscale Thin Alkali Films: Na/Cu(111). <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3932-3937.	0.9	24

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55	Anomalous enhancement of Raman scattering of metal oxide film deposited on thermally treated ITO-coated glass substrates. <i>Chemical Physics Letters</i> , 2009, 478, 195-199.	1.2	7
56	Vibrational measurements of Na/Ni(111) and (Na ⁺ CO)/Ni(111). <i>Journal of Materials Science</i> , 2008, 43, 3447-3451.	1.7	5
57	Short-Range Interactions in Na Coadsorption with CO and O on Ni(111). <i>ChemPhysChem</i> , 2008, 9, 1189-1194.	1.0	28
58	Electronic properties of (3/2 ⁻ 3/2)-Na/Cu(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2008, 162, 25-29.	0.8	6
59	Purely quadratic dispersion of surface plasmon in Ag/Ni(111): the influence of electron confinement. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 86-88.	1.2	33
60	Evidences of alkali-induced softening of the oxygen-substrate bond. <i>Journal of Chemical Physics</i> , 2008, 128, 074703.	1.2	18
61	Nature of the Alkali Surface Bond at Low Coverages Investigated by Vibrational Measurements. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6977-6980.	1.5	19
62	Electronic structure of cluster assembled nanostructured TiO ₂ by resonant photoemission at the Ti L _{2,3} edge. <i>Journal of Chemical Physics</i> , 2008, 128, 094704.	1.2	30
63	Electronic, chemical and structural characterization of CNTs grown by SiC surface decomposition. <i>Journal of Physics: Conference Series</i> , 2008, 100, 052093.	0.3	2
64	Thermally induced modifications of the optic properties of lead zirconate titanate thin films obtained on different substrates by sol-gel synthesis. <i>Journal of Applied Physics</i> , 2008, 104, 123522.	1.1	5
65	High resolution electron energy loss measurements of Na ⁺ Cu(111) and H ₂ O ⁺ Na ⁺ Cu(111): Dependence of water reactivity as a function of Na coverage. <i>Journal of Chemical Physics</i> , 2007, 126, 244712.	1.2	32
66	Influence of CO adsorption on the alkali-substrate bond studied by high-resolution electron energy loss spectroscopy. <i>Physical Review B</i> , 2007, 76, .	1.1	30
67	Electrical conductivity of cluster-assembled carbon/titania nanocomposite films irradiated by highly focused vacuum ultraviolet photon beams. <i>Journal of Applied Physics</i> , 2007, 101, 064314.	1.1	3
68	Effects of predosed oxygen and hydrogen on CO adsorption on Ni(100). <i>Surface Science</i> , 2007, 601, 104-111.	0.8	1
69	Electronic properties of self-assembled quantum dots of sodium on Cu(111) and their interaction with water. <i>Surface Science</i> , 2007, 601, 2656-2659.	0.8	27
70	Electronic, chemical and structural characterization of CNTs grown by acetylene decomposition over MgO supported Fe-Co bimetallic catalysts. <i>Surface Science</i> , 2007, 601, 2823-2827.	0.8	12
71	Photoemission investigations on nanostructured TiO ₂ grown by cluster assembling. <i>Surface Science</i> , 2007, 601, 2688-2691.	0.8	7
72	CO adsorption on Ni(100): Evidences for a weakly bound phase by HREELS measurements. <i>Surface Science</i> , 2006, 600, 1456-1461.	0.8	14

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73	Plasmon of Shockley surface states inCu(111): A high-resolution electron energy loss spectroscopy study. <i>Physical Review B</i> , 2006, 74, .	1.1	36
74	Nanocrystalline Metal/Carbon Composites Produced by Supersonic Cluster Beam Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1072-1080.	0.9	10
75	Resonant valence-band photoemission spectroscopy on the Fe ₆₂ Ni ₂₀ Cr ₁₈ alloy. <i>European Physical Journal B</i> , 2005, 43, 463-470.	0.6	5
76	Raman Investigation of the Ionic Liquid N-Methyl-N-propylpyrrolidinium Bis(trifluoromethanesulfonyl)imide and Its Mixture with LiN(SO ₂ CF ₃) ₂ . <i>Journal of Physical Chemistry A</i> , 2005, 109, 92-96.	1.1	196
77	Vibrational and electronic properties of hydrogen adsorbed on single-wall carbon nanotubes. <i>Physical Review B</i> , 2004, 69, .	1.1	15
78	Writing submicrometric metallic patterns by ultraviolet synchrotron irradiation of nanostructured carbon and TiO ₂ carbon films. <i>Applied Physics Letters</i> , 2004, 84, 3412-3414.	1.5	12
79	Spatially resolved valence band study of nanostructured carbon films containing transition metal nanocrystals. <i>Carbon</i> , 2004, 42, 923-929.	5.4	4
80	Morphology and electronic structure of nanostructured carbon films embedding transition metal nanoparticles. <i>European Physical Journal D</i> , 2003, 24, 273-276.	0.6	3
81	Electronic and vibrational excitations in carbon nanotubes. <i>Carbon</i> , 2003, 41, 985-992.	5.4	13
82	Co-adsorption of oxygen and carbon monoxide on Ni(111). <i>Surface Science</i> , 2003, 536, 33-44.	0.8	16
83	Thermal annealing and hydrogen exposure effects on cluster-assembled nanostructured carbon films embedded with transition metal nanoparticles. <i>Physical Review B</i> , 2003, 68, .	1.1	24
84	Characterization of PEO-lithium triflate polymer electrolytes: Conductivity, DSC and Raman Investigations. <i>Ionics</i> , 2002, 8, 36-43.	1.2	36
85	In situ x-ray absorption study of Zr _{0.29} Ni _{0.71} hydride electrodes. <i>Physical Review B</i> , 2000, 61, 13647-13654.	1.1	5
86	Unusual molecular orientation and frozen librational motion of C ₆₀ on Cu(110). <i>Physical Review B</i> , 1999, 60, 4517-4520.	1.1	35
87	Texture control of PbTiO ₃ and Pb(Zr,Ti)O ₃ thin films with TiO ₂ seeding. <i>Journal of Applied Physics</i> , 1998, 83, 3835-3841.	1.1	266
88	Structural characterization of submonolayer C/Al(111). <i>Surface Science</i> , 1998, 395, 120-129.	0.8	1
89	Angle-scanned photoemission: Fermi surface mapping and structural determination. <i>Surface Science</i> , 1998, 402-404, 614-622.	0.8	27
90	Surface atomic structure of c(2 $\sqrt{2}$ -2)-Si on Cu(110). <i>Physical Review B</i> , 1997, 55, 12896-12898.	1.1	28

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91	Local heteroepitaxy of diamond on silicon (100): a study of the interface structure. <i>Physical Review B</i> , 1997, 55, 15895-15904.	1.1	16
92	Real space mapping of the surface atomic environment via low energy scattering spectroscopy. <i>Surface Science</i> , 1997, 384, 36-45.	0.8	12
93	HREELS, LEED and angle-scanned XPD investigation of the coadsorption of CO and NO on Ni(111). <i>Surface Science</i> , 1996, 356, 189-194.	0.8	7
94	Orientation of Adsorbed C ₆₀ Molecules Determined via X-Ray Photoelectron Diffraction. <i>Physical Review Letters</i> , 1996, 76, 4733-4736.	2.9	110
95	A chemical state resolved x-ray photoelectron diffraction study: Initial stages in diamondlike carbon film deposition. <i>Journal of Applied Physics</i> , 1996, 80, 2181-2186.	1.1	5
96	Electronic structure of high- and low- temperature c(2 $\sqrt{2}$ - $\sqrt{2}$)-Na/Al(001) phases from angle-scanned ultraviolet photoemission. <i>Physical Review B</i> , 1996, 54, 5893-5900.	1.1	15
97	Mass and energy selected ion beam for deposition and ion induced surface modifications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995, 13, 2848-2855.	0.9	13
98	A LabVIEW-based control system for a surface science experimental station. <i>Measurement Science and Technology</i> , 1994, 5, 1002-1011.	1.4	8
99	KVVAuger-electron diffraction patterns from carbon solids. <i>Physical Review B</i> , 1994, 49, 13820-13825.	1.1	9
100	Local structure of c(2 $\sqrt{2}$ - $\sqrt{2}$)-Na on Al(001): Experimental evidence for the coexistence of intermixing and on-surface adsorption. <i>Physical Review B</i> , 1994, 50, 14516-14524.	1.1	59
101	Unoccupied electronic states of CuO and Cu ₂ O studied by secondary electron emission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994, 70, 45-50.	0.8	7
102	X-ray photoelectron and Auger electron diffraction study of diamond and graphite surfaces. <i>Surface Science</i> , 1994, 312, 131-142.	0.8	47
103	HREELS investigation of the coadsorption of CO and NO on Ni(111) at room temperature. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 64-65, 145-149.	0.8	6
104	Orientational study of low coverage CO and NO on Ni(111). <i>Surface Science Letters</i> , 1993, 289, L591-L594.	0.1	0
105	X-ray photoelectron diffraction study of CO- and NO-saturated Ni(111). <i>Surface Science Letters</i> , 1993, 282, A198.	0.1	0
106	X-ray photoelectron diffraction study of CO- and NO-saturated Ni(111). <i>Surface Science</i> , 1993, 282, 62-66.	0.8	16
107	Orientational study of low coverage CO and NO on Ni(111). <i>Surface Science</i> , 1993, 289, L591-L594.	0.8	10
108	Photoelectron diffraction analysis of diamond and metal-diamond interfaces. <i>Diamond and Related Materials</i> , 1993, 2, 548-551.	1.8	5

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109	Many-body effects in the M _{2,3} V Auger line shape of copper. <i>Physical Review B</i> , 1993, 48, 7779-7782.	1.1	5
110	Nondipole transitions at the 4d edges of Ta, Pt, and Au: Theory and experiment. <i>Physical Review B</i> , 1992, 46, 15660-15667.	1.1	4
111	On the Interpretation of the Fine Structure Below and Above the Cu-M _{2,3} V Auger Line. <i>Physica Scripta</i> , 1992, T41, 149-152.	1.2	16
112	Hydrogenation of carbidic carbon on Ni(111). <i>Surface Science</i> , 1992, 262, 1-7.	0.8	6
113	M _{4,5} absorption edge of Ag, Pd, and Rh by reflection electron-energy-loss spectroscopy: Role of nondipole transitions. <i>Physical Review B</i> , 1991, 44, 10888-10891.	1.1	7
114	Autoionization and energy-loss structures in Nb and Mo clean and oxygen-exposed surfaces. <i>Surface Science</i> , 1989, 211-212, 481-488.	0.8	6
115	Metallic Tin-Filling Effects on Carbon Nanotubes Revealed by Atomically Resolved Spectro-Microscopies. <i>Journal of Nano Research</i> , 0, 3, 1-6.	0.8	3