

Gennaro Chiarello

List of Publications by Year in descending order

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103
papers

3,259
citations

126708

33
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189595

50
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103
all docs

103
docs citations

103
times ranked

3266
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid-Phase Exfoliated GeSe Nanoflakes for Photoelectrochemical-Type Photodetectors and Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 48598-48613.	4.0	56
2	Broadband excitation spectrum of bulk crystals and thin layers of PtTe_2 . Physical Review B, 2019, 99, .	2.9	95
3	Sequestration of carbon monoxide at room temperature at vacancy sites of graphene. Chemical Communications, 2019, 55, 8607-8610.	2.2	2
4	Surface Reconstruction, Oxidation Mechanism, and Stability of Cd_3As_2 . Advanced Functional Materials, 2019, 29, 1900965.	7.8	13
5	Tunable surface plasmons in Weyl semimetals TaAs and NbAs. Physical Review B, 2019, 99, .	1.1	25
6	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodal-Line Semimetals. Advanced Functional Materials, 2019, 29, 1900438.	7.8	6
7	Toward the Effective Exploitation of Topological Phases of Matter in Catalysis: Chemical Reactions at the Surfaces of NbAs and TaAs Weyl Semimetals. Advanced Functional Materials, 2018, 28, 1800511.	7.8	40
8	Insight on Thermally Activated Hydrocarbon Dehydrogenation on the $\text{Pt}_3\text{Ni}(111)$ Surface: From Adsorbed Hydrocarbons up to Graphene Formation. Journal of Physical Chemistry C, 2018, 122, 3885-3892.	1.5	4
9	Tailoring the Surface Chemical Reactivity of Transition-Metal Dichalcogenide PtTe_2 Crystals. Advanced Functional Materials, 2018, 28, 1706504.	7.8	68
10	Anomalous lattice vibrations in self-nanostructured graphene on Ru(0001). Surface Science, 2018, 678, 5-10.	0.8	0
11	Anisotropic ultraviolet-plasmon dispersion in black phosphorus. Nanoscale, 2018, 10, 21918-21927.	2.8	18
12	3D Dirac Plasmons in the Type-II Dirac Semimetal PtTe_2 . Physical Review Letters, 2018, 121, 086804.	2.9	95
13	Effect of moiré superlattice reconstruction in the electronic excitation spectrum of graphene-metal heterostructures. 2D Materials, 2017, 4, 021001.	2.0	11
14	Dispersion and damping of the interband $\tilde{\Gamma}$ plasmon in graphene grown on Cu(111) foils. Carbon, 2017, 114, 70-76.	5.4	25
15	Cutting a Gordian Knot: Dispersion of plasmonic modes in Bi_2Se_3 topological insulator. Applied Physics Letters, 2017, 110, .	1.5	16
16	Graphene on $\text{Pt}_3\text{Ni}(1\bar{1}0)$: a suitable platform for tunable charge doping, electron-phonon coupling and plasmonic excitations. 2D Materials, 2017, 4, 035003.	2.0	11
17	The role of surface chemical reactivity in the stability of electronic nanodevices based on two-dimensional materials – beyond graphene – and topological insulators. FlatChem, 2017, 1, 60-64.	2.8	32
18	Plasmon spectroscopy of graphene and other two-dimensional materials with transmission electron microscopy. Materials Science in Semiconductor Processing, 2017, 65, 88-99.	1.9	40

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19	The Advent of Indium Selenide: Synthesis, Electronic Properties, Ambient Stability and Applications. <i>Nanomaterials</i> , 2017, 7, 372.	1.9	50
20	Unusually strong lateral interaction in the CO overlayer in phosphorene-based systems. <i>Nano Research</i> , 2016, 9, 2598-2605.	5.8	15
21	Unveiling the Mechanisms Leading to H ₂ Production Promoted by Water Decomposition on Epitaxial Graphene at Room Temperature. <i>ACS Nano</i> , 2016, 10, 4543-4549.	7.3	60
22	When plasmonics meets membrane technology. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 363003.	0.7	75
23	Unveiling the Oxidation Processes of Pt ₃ Ni(111) by Real-Time Surface Core-Level Spectroscopy. <i>ChemCatChem</i> , 2016, 8, 713-718.	1.8	4
24	The influence of chemical reactivity of surface defects on ambient-stable InSe-based nanodevices. <i>Nanoscale</i> , 2016, 8, 8474-8479.	2.8	92
25	Interband plasmons in supported graphene on metal substrates: Theory and experiments. <i>Carbon</i> , 2016, 96, 91-97.	5.4	28
26	Emergence of an Out-of-Plane Optical Phonon (ZO) Kohn Anomaly in Quasifreestanding Epitaxial Graphene. <i>Physical Review Letters</i> , 2015, 115, 075504.	2.9	29
27	Interplay of Surface and Dirac Plasmons in Topological Insulators: The Case of Bi_2Te_3 . <i>Physical Review Letters</i> , 2015, 115, 216802.	2.9	87
28	Ice formation on clean and alkali-doped quasi-freestanding graphene: A vibrational investigation. <i>Carbon</i> , 2015, 93, 242-249.	5.4	6
29	Substrate-dependent plasmonic properties of supported graphene. <i>Surface Science</i> , 2015, 634, 76-80.	0.8	18
30	The influence of electron confinement, quantum size effects, and film morphology on the dispersion and the damping of plasmonic modes in Ag and Au thin films. <i>Progress in Surface Science</i> , 2015, 90, 144-193.	3.8	48
31	Probing the Young's modulus and Poisson's ratio in graphene/metal interfaces and graphite: a comparative study. <i>Nano Research</i> , 2015, 8, 1847-1856.	5.8	130
32	Symmetries and selection rules in the measurement of the phonon spectrum of graphene and related materials. <i>Carbon</i> , 2015, 85, 225-232.	5.4	21
33	Collective Excitations in Monolayer Graphene on Metals: Phonons and Plasmons. <i>Carbon Materials</i> , 2015, , 33-66.	0.2	0
34	Emergence of a nonlinear plasmon in the electronic response of doped graphene. <i>Carbon</i> , 2014, 71, 176-180.	5.4	21
35	Plasmon modes in graphene: status and prospect. <i>Nanoscale</i> , 2014, 6, 10927-10940.	2.8	161
36	Exploring the Surface Chemical Reactivity of Single Crystals of Binary and Ternary Bismuth Chalcogenides. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21517-21522.	1.5	27

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37	Plasmonic Modes in Thin Films: Quo Vadis?. <i>Frontiers in Materials</i> , 2014, 1, .	1.2	9
38	The nature of free O-H stretching in water adsorbed on carbon nanosystems. <i>Journal of Chemical Physics</i> , 2013, 139, 064704.	1.2	8
39	Unravelling suitable grapheneâ€metal contacts for graphene-based plasmonic devices. <i>Nanoscale</i> , 2013, 5, 8215.	2.8	39
40	Collective Electronic Excitations in Thin Ag Films on Ni(111). <i>Plasmonics</i> , 2013, 8, 1683-1690.	1.8	9
41	Evidence of confinement of the $\tilde{\Gamma}$ plasmon in periodically rippled graphene on Ru(0001). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11356.	1.3	24
42	Periodically rippled graphene on Ru(0001): A template for site-selective adsorption of hydrogen dimers via water splitting and hydrogen-spillover at room temperature. <i>Carbon</i> , 2013, 61, 412-417.	5.4	23
43	Evidence of composite plasmonâ€phonon modes in the electronic response of epitaxial graphene. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 345303.	0.7	22
44	Vibrational spectroscopy and theory of alkali metal adsorption and co-adsorption on single-crystal surfaces. <i>Surface Science Reports</i> , 2013, 68, 305-389.	3.8	57
45	Spectroscopic characterization of graphene films grown on Pt(111) surface by chemical vapor deposition of ethylene. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1393-1397.	1.2	34
46	On the intercalation of CO molecules in ultra-high vacuum conditions underneath graphene epitaxially grown on metal substrates. <i>Carbon</i> , 2013, 62, 263-269.	5.4	6
47	Quenching of plasmons modes in air-exposed graphene-Ru contacts for plasmonic devices. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	35
48	Phonon dispersion of quasi-freestanding graphene on Pt(111). <i>Journal of Physics Condensed Matter</i> , 2012, 24, 104025.	0.7	35
49	Elastic properties of a macroscopic graphene sample from phonon dispersion measurements. <i>Carbon</i> , 2012, 50, 4903-4910.	5.4	91
50	Quadratic Dispersion and Damping Processes of $\tilde{\Gamma}$ Plasmon in Monolayer Graphene on Pt(111). <i>Plasmonics</i> , 2012, 7, 369-376.	1.8	35
51	Evidence of Kohn anomalies in quasi-freestanding graphene on Pt(1 1 1). <i>Carbon</i> , 2012, 50, 734-736.	5.4	36
52	Influence of Electron Quantum Confinement on the Electronic Response of Metal/Metal Interfaces. <i>International Journal of Behavioral and Consultation Therapy</i> , 2012, , 69-104.	0.4	1
53	Vibrational Investigation of Catalyst Surfaces: Change of the Adsorption Site of CO Molecules upon Coadsorption. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13541-13553.	1.5	35
54	The adsorption and co-adsorption of oxygen and carbon monoxide on Pt ₃ Ni(111): A vibrational study. <i>Journal of Chemical Physics</i> , 2011, 134, 224705.	1.2	17

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55	Hydrogen bonding at the water/quasi-freestanding graphene interface. Carbon, 2011, 49, 5180-5184.	5.4	34
56	Carbon monoxide interaction with oxygenated nickel single-crystal surfaces studied by vibrational spectroscopy. Vibrational Spectroscopy, 2011, 55, 295-299.	1.2	9
57	Plasmonic Modes Confined in Nanoscale Thin Silver Films Deposited onto Metallic Substrates. Journal of Nanoscience and Nanotechnology, 2010, 10, 1313-1321.	0.9	16
58	O ₂ dissociation in Na-modified gold ultrathin layer on Cu(111). Gold Bulletin, 2010, 43, 267-274.	3.2	5
59	Low-energy bulk plasmon of nickel. Solid State Sciences, 2010, 12, 2096-2099.	1.5	6
60	A spectro-microscopic investigation of Fe-Co bimetallic catalysts supported on MgO for the production of thin carbon nanotubes. Carbon, 2010, 48, 3434-3445.	5.4	35
61	Enhancement of hydrolysis in alkali ultrathin layers on metal substrates in the presence of electron confinement. Chemical Physics Letters, 2010, 494, 84-87.	1.2	18
62	COLLECTIVE ELECTRONIC EXCITATIONS IN SYSTEMS EXHIBITING QUANTUM WELL STATES. Surface Review and Letters, 2009, 16, 171-190.	0.5	27
63	Collective Excitations in Nanoscale Thin Alkali Films: Na/Cu(111). Journal of Nanoscience and Nanotechnology, 2009, 9, 3932-3937.	0.9	24
64	Dispersion and damping of surface plasmon in Ag thin films grown on Cu(111) and Ni(111). Superlattices and Microstructures, 2009, 46, 137-140.	1.4	17
65	Electronic properties of gold thin films studied by electron energy loss spectroscopy. Gold Bulletin, 2009, 42, 195-200.	3.2	24
66	Electronic properties of metallic bilayers deposited on Cu(111): A comparative study. Surface Science, 2009, 603, 933-937.	0.8	16
67	Damping of the surface plasmon in clean and K-modified Ag thin films. Journal of Electron Spectroscopy and Related Phenomena, 2009, 173, 12-17.	0.8	16
68	Annealing effects on the plasmonic excitations of metal/metal interfaces. Applied Surface Science, 2009, 255, 6038-6042.	3.1	17
69	Chemical Reactions at Clean and Alkali-Doped Mismatched Metal/Metal Interfaces. Journal of Physical Chemistry C, 2009, 113, 316-320.	1.5	20
70	Dispersion and Damping of Gold Surface Plasmon. Plasmonics, 2008, 3, 165-170.	1.8	57
71	Short-Range Interactions in Na Coadsorption with CO and O on Ni(111). ChemPhysChem, 2008, 9, 1189-1194.	1.0	28
72	Alkali adsorption on Ni(111) and their coadsorption with CO and O. Applied Surface Science, 2008, 254, 6854-6859.	3.1	23

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73	Temperature effects on alkali-promoted CO dissociation on Ni(111). <i>Surface Science</i> , 2008, 602, 2096-2100.	0.8	15
74	Mechanisms Leading to Alkali Oxidation on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17772-17774.	1.5	14
75	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
76	Alkali-promoted CO dissociation on Cu(111) and Ni(111) at room temperature. <i>Journal of Chemical Physics</i> , 2008, 129, 164703.	1.2	23
77	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
78	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
79	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
80	Electronic and vibrational excitations in carbon nanotubes. <i>Carbon</i> , 2003, 41, 985-992.	5.4	13
81	Co-adsorption of oxygen and carbon monoxide on Ni(111). <i>Surface Science</i> , 2003, 536, 33-44.	0.8	16
82	Surface-plasmon dispersion and multipole surface plasmons in Al(111). <i>Physical Review B</i> , 2000, 62, 12676-12679.	1.1	43
83	A photoelectron spectroscopy study of sub-monolayer interfaces annealed from 300 up to 623 K. <i>Surface Science</i> , 1997, 380, 311-323.	0.8	29
84	XPS and AFM characterization of a vanadium oxide film on TiO ₂ (100) surface. <i>Applied Surface Science</i> , 1996, 99, 15-19.	3.1	30
85	Local structure of c(2 $\sqrt{3}$ ×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
86	Surface carboxylate species on Cu(100) studied by angle-scanned photoelectron diffraction and LCAO-LDF calculations. <i>Surface Science</i> , 1994, 315, 309-322.	0.8	32
87	An X-ray photoelectron spectroscopy study of the vanadia-titania catalysts. <i>Applied Surface Science</i> , 1993, 64, 91-96.	3.1	26
88	Azimuthal orientation of formate and acetate on Cu(100) studied by angle-scanned photoelectron diffraction. <i>Surface Science</i> , 1993, 291, L756-L758.	0.8	11
89	Vanadium oxide catalysts supported on laser-synthesized titania powders: Characterization and catalytic activity in the selective reduction of nitric oxide. <i>Applied Catalysis B: Environmental</i> , 1992, 1, 61-77.	10.8	38
90	Surface extended energy loss fine structure and local spin density investigation of carbidic carbon on the Ni(100) surface. <i>Surface Science</i> , 1988, 202, L621-L626.	0.8	29

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91	Extended fine structures in autoionization emission spectra of bulk chromium. Physical Review B, 1987, 35, 5311-5314.	1.1	22
92	Observation of carboxylic groups in the lattice of sintered Ba ₂ YCu ₃ O ₇ high-T _c superconductors. Physical Review B, 1987, 36, 7148-7150.	1.1	70
93	Penning ionization electron spectroscopy, UPS and TPD of NCCN on Pd(100). Surface Science, 1986, 178, 667-678.	0.8	39
94	Secondary-electron emission and electron-energy-loss results on graphite single crystals. Physical Review B, 1986, 34, 6080-6084.	1.1	33
95	Extended energy loss fine structure measurement above shallow and deep core levels of 3d transition metals. Journal of Physics C: Solid State Physics, 1985, 18, 3595-3614.	1.5	44
96	Carbonaceous layers on Ni (110) and (100) studied by AES and eels. Surface Science, 1985, 162, 259-263.	0.8	24
97	Extended fine structures above TiL _{2,3} edge: A comparison between reflection energy loss and extended x-ray-absorption fine-structure results. Physical Review B, 1984, 29, 3730-3732.	1.1	35
98	Structural study of iron and carbidic iron by surface extended energy loss spectroscopy. Surface Science, 1984, 136, 555-570.	0.8	27
99	Reflection electron-energy-loss investigation of the electronic and structural properties of palladium. Physical Review B, 1984, 29, 4878-4889.	1.1	81
100	Electronic properties of Fe ₈₀ B ₂₀ alloys: ordering and disordering effects. Journal of Physics F: Metal Physics, 1983, 13, 895-907.	1.6	26
101	Radial distribution functions of Cu and Ni by reflection energy loss spectroscopy. Surface Science, 1982, 117, 525-532.	0.8	34
102	Surface extended energy loss fine structures above the K-edge of oxygen on Al. Solid State Communications, 1982, 44, 845-847.	0.9	24
103	Extended ELS fine structures above the M _{2,3} edges of Cu and Ni. Solid State Communications, 1981, 40, 613-617.	0.9	72