

Gianangelo Bracco

List of Publications by Year in descending order

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105
papers

1,837
citations

236925

25
h-index

330143

37
g-index

106
all docs

106
docs citations

106
times ranked

1345
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperthermal Molecular Beam Deposition of Highly Ordered Organic Thin Films. Physical Review Letters, 2003, 90, 206101.	7.8	129
2	Imaging with neutral atoms—a new matter-wave microscope. Journal of Microscopy, 2008, 229, 1-5.	1.8	84
3	Structure and electronic properties of CH ₃ - and CF ₃ -terminated alkanethiol monolayers on Au(): a scanning tunneling microscopy, surface X-ray and helium scattering study. Surface Science, 2002, 498, 89-104.	1.9	83
4	Technical design report for the <u>P</u> ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
5	Avoided crossing of vibrational modes in Ag(110) observed by He time-of-flight measurements. Physical Review B, 1987, 36, 2928-2930.	3.2	58
6	Structural Investigation of Monolayers Prepared by Deposition of (CH ₃ S) ₂ on the (111) Face of Single-Crystal Gold. Journal of Physical Chemistry B, 2002, 106, 11771-11777.	2.6	50
7	Missing-row reconstruction of Ag(110) induced by a $\sqrt{2}\times\sqrt{2}$ oxygen overlayer. Physical Review B, 1989, 40, 12271-12279.	3.2	43
8	Poisson's spot with molecules. Physical Review A, 2009, 79, .	2.5	40
9	Surface resonant phonons of Ag(110). Surface Science, 1989, 211-212, 314-322.	1.9	39
10	PANDA Phase One. European Physical Journal A, 2021, 57, 1.	2.5	38
11	Focusing of a neutral helium beam below one micron. New Journal of Physics, 2012, 14, 073014.	2.9	36
12	Enhanced Chemical Reactivity of Pristine Graphene Interacting Strongly with a Substrate: Chemisorbed Carbon Monoxide on Graphene/Nickel(100). ChemCatChem, 2015, 7, 2328-2331.	3.7	36
13	Direct Images of the Virtual Source in a Supersonic Expansion. Journal of Physical Chemistry A, 2007, 111, 12620-12628.	2.5	34
14	Organic semiconducting thin film growth on an organic substrate: 3,4,9,10-perylene-tetracarboxylic dianhydride on a monolayer of decanethiol self-assembled on Au(111). Physical Review B, 2000, 61, 7678-7685.	3.2	32
15	On the primary mechanism of surface roughening: the Ag(110) case. Surface Science, 1993, 287-288, 871-875.	1.9	31
16	Theoretical and experimental study of He free-jet expansions. Physical Review A, 1999, 59, 3084-3087.	2.5	31
17	Feasibility studies of time-like proton electromagnetic form factors at <u>m P</u> P ⁺ ANDA at FAIR. European Physical Journal A, 2016, 52, 1.	2.5	31
18	Impact-collision ion scattering study of Ag(110). Surface Science, 1992, 269-270, 61-67.	1.9	30

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19	Experimental access to Transition Distribution Amplitudes with the P_{ANDA} experiment at FAIR. European Physical Journal A, 2015, 51, 1.	2.5	29
20	Technical design report for the P_{ANDA} Barrel DIRC detector. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 045001.	3.6	28
21	Anharmonic effects at the onset of the Ag(110) roughening transition. Surface Science, 1996, 352-354, 964-967.	1.9	27
22	Study of He flow properties to test He dimer potentials. Journal of Chemical Physics, 2003, 119, 1433-1441.	3.0	27
23	Precision resonance energy scans with the PANDA experiment at FAIR. European Physical Journal A, 2019, 55, 1.	2.5	27
24	Correlating hydrophobicity to surface chemistry of microstructured aluminium surfaces. Applied Surface Science, 2021, 542, 148574.	6.1	27
25	Selective adsorption and interaction potential of CO_2 on graphite. Surface Science, 1984, 136, 169-183.	1.9	26
26	Spectroscopic ellipsometry meets AFM nanolithography: about hydration of bio-inert oligo(ethylene glycol) on silicon. Applied Surface Science, 2021, 542, 28774-28781.	2.8	26
27	Diffraction of He atoms from a Xe overlayer adsorbed on graphite (0001). Surface Science, 1983, 125, L81-L86.	1.9	25
28	Particle-wave discrimination in Poisson spot experiments. New Journal of Physics, 2011, 13, 065016.	2.9	25
29	Material properties particularly suited to be measured with helium scattering: selected examples from 2D materials, van der Waals heterostructures, glassy materials, catalytic substrates, topological insulators and superconducting radio frequency materials. Physical Chemistry Chemical Physics, 2021, 23, 7653-7672.	2.8	25
30	Oxygen effectiveness in restructuring the Ag(110) surface: The $(\sqrt{3}\sqrt{3}-1)O$ chemisorbed phase. Physical Review B, 1990, 42, 1852-1855.	3.2	24
31	Anomalous linewidth behaviour of the S_3 surface resonance on Ag(110). Europhysics Letters, 1996, 34, 687-692.	2.0	24
32	Observation of acoustic and optical surface phonons in LiF(001) by inelastic He scattering. Surface Science, 1987, 189-190, 684-688.	1.9	23
33	Phonon spectrum of the $(\sqrt{3}\sqrt{3}-1)O$ -Ag(110) surface. Journal of Electron Spectroscopy and Related Phenomena, 1987, 44, 197-204.	1.7	22
34	Study of doubly strange systems using stored antiprotons. Nuclear Physics A, 2016, 954, 323-340.	1.5	22
35	Theoretical model of the helium pinhole microscope. Physical Review A, 2016, 94, .	2.5	21
36	Feasibility study for the measurement of transition distribution amplitudes at P_{ANDA} experiment at FAIR. European Physical Journal A, 2015, 51, 1.	4.7	21

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37	Helium Diffraction Study of Organic Single-Crystal Surfaces: Hydrogen-Bonded and Methyl-Terminated (001) Cleavage Planes of a Guanidinium Methanesulfonate Crystal. <i>Langmuir</i> , 2002, 18, 5551-5557.	3.5	20
38	Surface optical phonons in LiF(001) observed by inelastic helium scattering. <i>Physical Review B</i> , 1986, 34, 9045-9046.	3.2	18
39	Assessment of quantitative imaging of contaminant distributions in porous media. <i>Experiments in Fluids</i> , 2007, 44, 167-177.	2.4	18
40	Chemisorption of CO on N-doped graphene on Ni(111). <i>Applied Surface Science</i> , 2018, 428, 775-780.	6.1	18
41	High-resolution scattering apparatus for surface studies. <i>Review of Scientific Instruments</i> , 2002, 73, 4257-4263.	1.3	16
42	Smoothing of nanoscale surface ripples studied by He atom scattering. <i>Physical Review B</i> , 2003, 68, .	3.2	16
43	A free jet (supersonic), molecular beam source with automatized, 50 nm precision nozzle-skimmer positioning. <i>Review of Scientific Instruments</i> , 2013, 84, 093303.	1.3	16
44	Two Dimensional Imaging of the Virtual Source of a Supersonic Beam: Helium at 125 K. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4-12.	2.5	16
45	Residual order within the molten Al(110) surface layer. <i>Physical Review B</i> , 2002, 65, .	3.2	15
46	Decay of nanoripples on Au(111) studied by He atom scattering. <i>Physical Review B</i> , 2007, 76, .	3.2	14
47	Surface self-diffusion at intermediate temperature: The Ag(110) case. <i>Physical Review B</i> , 2002, 66, .	3.2	13
48	Influence of Steps on the Tilting and Adsorption Dynamics of Ordered Pentacene Films on Vicinal Ag(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19429-19433.	3.1	13
49	Theoretical model of the helium zone plate microscope. <i>Physical Review A</i> , 2017, 95, .	2.5	13
50	Temperature dependence of the Ag(110) surface phonons. <i>Surface Science</i> , 1997, 377-379, 325-329.	1.9	12
51	Zero-order filter for diffractive focusing of de Broglie matter waves. <i>Physical Review A</i> , 2017, 95, .	2.5	12
52	The Ag(110) thermal disordering mechanism studied by low-energy ion scattering. <i>Surface Science</i> , 2001, 482-485, 1457-1462.	1.9	11
53	Anisotropic self-diffusion on Ag(). <i>Surface Science</i> , 2002, 507-510, 129-134.	1.9	11
54	A low-energy ion scattering study of Al(110) surface melting. <i>Surface Science</i> , 2003, 532-535, 13-18.	1.9	11

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55	Study of the interaction potential between He and a self-assembled monolayer of decanethiol. Journal of Chemical Physics, 2003, 119, 6277-6281.	3.0	11
56	Probing Surfaces with Thermal He Atoms: Scattering and Microscopy with a Soft Touch. Springer Series in Surface Sciences, 2013, , 333-365.	0.3	11
57	Brightness and virtual source size of a supersonic deuterium beam. Physical Review A, 2012, 86, .	2.5	10
58	Energy-resolved He-atom-scattering study of Ag(110) up to 900 K. Physical Review B, 1996, 54, 10385-10388.	3.2	9
59	Study of He clusters by means of a compact time-of-flight detector for atom scattering. Review of Scientific Instruments, 2003, 74, 4404-4409.	1.3	9
60	Vibrational effects on Ag(110) studied by neutral impact-collision ion scattering. Surface Science, 1997, 377-379, 94-97.	1.9	8
61	11-Hydroxyundecyl octadecyl disulfide self-assembled monolayers on Au(111). Applied Surface Science, 2014, 311, 643-647.	6.1	8
62	Center-line intensity of a supersonic helium beam. Physical Review A, 2018, 98, .	2.5	8
63	Low-energy ion scattering study of Al(110) thermal disordering. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 563-567.	1.4	7
64	Ordered phases and temperature behaviour of CH ₃ S self-assembled monolayers on Au(111). Journal of Physics Condensed Matter, 2007, 19, 305019.	1.8	7
65	Comparison of quadrupole mass filters equipped with rods of different convexity: An analysis by finite element methods and trajectory simulations. International Journal of Mass Spectrometry, 2008, 278, 75-88.	1.5	7
66	Feasibility studies for the measurement of time-like proton electromagnetic form factors from $\sigma(p \rightarrow \mu^+ \mu^-)$ at $\overline{\text{ext}}\{P\}$ at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	7
67	The missing-row-reconstructed $p(3 \sqrt{3} \times 1)O$ -Ag(110) surface. Surface Science, 1991, 251-252, 498-502.	1.9	6
68	Inelastic effects close to the roughening transition of Ag(110). Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 791-795.	1.7	6
69	Equilibrium morphology of the Ag(110) surface. Surface Science, 1996, 352-354, 968-971.	1.9	6
70	A critical discussion about the roughening temperature estimation: the Ag(110) case. Surface Science, 1997, 377-379, 524-528.	1.9	6
71	Self-diffusion on Ag() studied by quasielastic He-atom scattering. Surface Science, 2002, 502-503, 341-346.	1.9	6
72	Atomic diffraction study of the interaction of helium atoms with the surface of an organic single crystal: The (001) cleavage planes of guanidinium methanesulfonate. Journal of Chemical Physics, 2003, 118, 8405-8410.	3.0	6

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73	Helium atom diffraction study of low coverage phases of decanethiol self-assembled monolayers prepared by supersonic molecular beam deposition. <i>Applied Surface Science</i> , 2013, 268, 98-102.	6.1	6
74	Investigation of the deposition and thermal behavior of striped phases of unsymmetric disulfide self-assembled monolayers on Au(111): The case of 11-hydroxyundecyl decyl disulfide. <i>Journal of Chemical Physics</i> , 2015, 142, 014703.	3.0	6
75	Velocity distributions in microskimmer supersonic expansion helium beams: High precision measurements and modeling. <i>Review of Scientific Instruments</i> , 2018, 89, 113301.	1.3	6
76	Phonon spectrum of $p(3\sqrt{3}\times\sqrt{3})$ -O-Ag(110) along $\langle 10 \rangle$. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990, 54-55, 317-324.	1.7	5
77	Structural study of CH ₃ S self-assembled monolayers on Au(111). <i>Vacuum</i> , 2008, 82, 1421-1424.	3.5	5
78	The potential of λ and χ studies with PANDA at FAIR. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	5
79	True-to-size surface mapping with neutral helium atoms. <i>Physical Review A</i> , 2021, 103, .	2.5	5
80	Surface disordering of Ag(I) studied by a new high resolution scattering apparatus. <i>Surface Science</i> , 2002, 513, 308-314.	1.9	4
81	Adatom formation mechanism on Ag(110) studied by quasielastic He atom scattering. <i>Physical Review B</i> , 2003, 68, .	3.2	4
82	A modified time-of-flight method for precise determination of high speed ratios in molecular beams. <i>Review of Scientific Instruments</i> , 2016, 87, 023102.	1.3	4
83	Study of the helium cross-section of unsymmetric disulfide self-assembled monolayers on Au(111). <i>Applied Surface Science</i> , 2016, 390, 283-288.	6.1	4
84	Surface lattice dynamics of the $p(3\sqrt{3}\times\sqrt{3})$ -Ag(110) system. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1993, 15, 471-483.	0.4	3
85	The surface structure and thermal vibrations of Ag(I) studied by low energy ion scattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 193, 557-562.	1.4	3
86	Morphology changes of Si(0 0 1) surfaces during wet chemical halogenation. <i>Applied Surface Science</i> , 2003, 212-213, 595-600.	6.1	3
87	On the re-oxidation of silicon(0 0 1) surfaces modified by self-assembled monolayers. <i>Applied Surface Science</i> , 2003, 212-213, 649-653.	6.1	3
88	He reflectivity study of a self-assembled monolayer of decanethiol on Au(111). <i>Surface Science</i> , 2004, 566-568, 585-590.	1.9	3
89	Supersonic Molecular Beams Studies of Surfaces. <i>Springer Series in Surface Sciences</i> , 2013, , 1-23.	0.3	3
90	Prominence of Terahertz Acoustic Surface Plasmon Excitation in Gas-Surface Interaction with Metals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9894-9898.	4.6	3

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91	The smoothing kinetics of Ag(110) studied by thermal energy He atom scattering. Surface Science, 2004, 566-568, 115-121.	1.9	2
92	Spectrum of the interaction potential between He and as-deposited self-assembled monolayers of decanethiol chemisorbed on Au(111). Surface Science, 2004, 562, 269-274.	1.9	2
93	Mechanism of adatom formation on Ag(110) studied by combined quasi-elastic He atom scattering and low energy ion scattering. Nuclear Instruments & Methods in Physics Research B, 2005, 230, 406-412.	1.4	2
94	He scattering study of Au(111) nanostructured by ion sputtering. European Physical Journal Special Topics, 2006, 132, 243-247.	0.2	2
95	Note: Design and test of a compact flexure z-stage for atomic force microscopy. Review of Scientific Instruments, 2010, 81, 036106.	1.3	2
96	Study of excited Ξ baryons with the \overline{P} ANDA detector. European Physical Journal A, 2021, 57, 1.	2.5	2
97	Diffraction of He atoms from a Xe overlayer adsorbed on graphite (0001). Surface Science Letters, 1983, 125, L81-L86.	0.1	1
98	He diffraction study of the time decay of ripple structures on ion bombarded Ag(1 1 0). Applied Surface Science, 2003, 212-213, 344-348.	6.1	1
99	Self-assembly of Organic Molecules at Metal Surfaces. Springer Handbooks, 2020, , 967-1004.	0.6	1
100	Roughening Transition: Theories and Experiments. Springer Handbooks, 2020, , 3-44.	0.6	1
101	Study of the (0 0 1) cleavage planes of guanidinium methanesulfonate single crystals by AFM and He diffraction. Applied Surface Science, 2003, 212-213, 151-156.	6.1	0
102	Comparison of quadrupole mass filters with hyperbolic and cylindrical rods working in the third stability zone. International Journal of Mass Spectrometry, 2011, 303, 212-219.	1.5	0
103	Corrigendum to "11-Hydroxyundecyl octadecyl disulfide self-assembled monolayers on Au(1 1 1)" [Appl. Surf. Sci. 311 (2014) 643-647]. Applied Surface Science, 2014, 315, 36.	6.1	0
104	Commissioning and improvements of the instrumentation and launch of the scientific exploitation of OARPAF, the Regional Astronomical Observatory of the Antola Park. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.8	0
105	Anomalous linewidth behaviour of the S 3 surface resonance on Ag(110). Europhysics Letters, 1996, 35, 726-726.	2.0	0