

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	Correlating hydrophobicity to surface chemistry of microstructured aluminium surfaces. Applied Surface Science, 2021, 542, 148574.	6.1	27
2	The potential of λ and χ studies with PANDA at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	5
3	Study of excited χ baryons with the \overline{P} ANDA detector. European Physical Journal A, 2021, 57, 1.	2.5	2
4	True-to-size surface mapping with neutral helium atoms. Physical Review A, 2021, 103, .	2.5	5
5	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
6	PANDA Phase One. European Physical Journal A, 2021, 57, 1.	2.5	38
7	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
8	Feasibility studies for the measurement of time-like proton electromagnetic form factors from $p \rightarrow \mu^+ \mu^-$ at \overline{P} ANDA at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	7
9	Prominence of Terahertz Acoustic Surface Plasmon Excitation in Gasâ€“Surface Interaction with Metals. Journal of Physical Chemistry Letters, 2021, 12, 9894-9898.	4.6	3
10	Self-assembly of Organic Molecules at Metal Surfaces. Springer Handbooks, 2020, , 967-1004.	0.6	1
11	Roughening Transition: Theories and Experiments. Springer Handbooks, 2020, , 3-44.	0.6	1
12	Precision resonance energy scans with the PANDA experiment at FAIR. European Physical Journal A, 2019, 55, 1.	2.5	27
13	Technical design report for the \overline{P} ANDA Barrel DIRC detector. Journal of Physics C: Nuclear and Particle Physics, 2019, 46, 045001.	3.6	28
14	Chemisorption of CO on N-doped graphene on Ni(111). Applied Surface Science, 2018, 428, 775-780.	6.1	18
15	Center-line intensity of a supersonic helium beam. Physical Review A, 2018, 98, .	2.5	8
16	Velocity distributions in microskimmer supersonic expansion helium beams: High precision measurements and modeling. Review of Scientific Instruments, 2018, 89, 113301.	1.3	6
17	Theoretical model of the helium zone plate microscope. Physical Review A, 2017, 95, .	2.5	13
18	Zero-order filter for diffractive focusing of de Broglie matter waves. Physical Review A, 2017, 95, .	2.5	12

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19	study for the measurement of $\langle \mathbb{N} \rangle$ transition distribution amplitudes at $\langle \mathbb{N} \rangle$. Review of Scientific Instruments, 2016, 87, 023102.	4.7	21
20	A modified time-of-flight method for precise determination of high speed ratios in molecular beams. Review of Scientific Instruments, 2016, 87, 023102.	1.3	4
21	Theoretical model of the helium pinhole microscope. Physical Review A, 2016, 94, .	2.5	21
22	Study of doubly strange systems using stored antiprotons. Nuclear Physics A, 2016, 954, 323-340.	1.5	22
23	Study of the helium cross-section of unsymmetric disulfide self-assembled monolayers on Au(111). Applied Surface Science, 2016, 390, 283-288.	6.1	4
24	Feasibility studies of time-like proton electromagnetic form factors at \overline{P} ANDA at FAIR. European Physical Journal A, 2016, 52, 1.	2.5	31
25	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
26	Spectroscopic ellipsometry meets AFM nanolithography: about hydration of bio-inert oligo(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 28774-28781.	2.8	26
27	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. Journal of Chemical Physics, 2015, 142, 014703.	3.0	6
28	Experimental access to Transition Distribution Amplitudes with the \overline{P} , ANDA experiment at FAIR. European Physical Journal A, 2015, 51, 1.	2.5	29
29	Two Dimensional Imaging of the Virtual Source of a Supersonic Beam: Helium at 125 K. Journal of Physical Chemistry A, 2014, 118, 4-12.	2.5	16
30	Corrigendum to $\langle \mathbb{N} \rangle$ 11-Hydroxyundecyl octadecyl disulfide self-assembled monolayers on Au(111) [Appl. Surf. Sci. 311 (2014) 643-647]. Applied Surface Science, 2014, 315, 36.	6.1	0
31	11-Hydroxyundecyl octadecyl disulfide self-assembled monolayers on Au(111). Applied Surface Science, 2014, 311, 643-647.	6.1	8
32	Technical design report for the \overline{P} ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
33	Helium atom diffraction study of low coverage phases of decanethiol self-assembled monolayers prepared by supersonic molecular beam deposition. Applied Surface Science, 2013, 268, 98-102.	6.1	6
34	Probing Surfaces with Thermal He Atoms: Scattering and Microscopy with a Soft Touch. Springer Series in Surface Sciences, 2013, , 333-365.	0.3	11
35	A free jet (supersonic), molecular beam source with automatized, 50 nm precision nozzle-skimmer positioning. Review of Scientific Instruments, 2013, 84, 093303.	1.3	16
36	Supersonic Molecular Beams Studies of Surfaces. Springer Series in Surface Sciences, 2013, , 1-23.	0.3	3

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37	Focusing of a neutral helium beam below one micron. <i>New Journal of Physics</i> , 2012, 14, 073014.	2.9	36
38	Brightness and virtual source size of a supersonic deuterium beam. <i>Physical Review A</i> , 2012, 86, .	2.5	10
39	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
40	Comparison of quadrupole mass filters with hyperbolic and cylindrical rods working in the third stability zone. <i>International Journal of Mass Spectrometry</i> , 2011, 303, 212-219.	1.5	0
41	Particleâ€wave discrimination in Poisson spot experiments. <i>New Journal of Physics</i> , 2011, 13, 065016.	2.9	25
42	Note: Design and test of a compact flexure z-stage for atomic force microscopy. <i>Review of Scientific Instruments</i> , 2010, 81, 036106.	1.3	2
43	Poissonâ€™s spot with molecules. <i>Physical Review A</i> , 2009, 79, .	2.5	40
44	Structural study of CH ₃ S self-assembled monolayers on Au(111). <i>Vacuum</i> , 2008, 82, 1421-1424.	3.5	5
45	Comparison of quadrupole mass filters equipped with rods of different convexity: An analysis by finite element methods and trajectory simulations. <i>International Journal of Mass Spectrometry</i> , 2008, 278, 75-88.	1.5	7
46	Imaging with neutral atomsâ€a new matterâ€wave microscope. <i>Journal of Microscopy</i> , 2008, 229, 1-5.	1.8	84
47	Ordered phases and temperature behaviour of CH ₃ S self-assembled monolayers on Au(111). <i>Journal of Physics Condensed Matter</i> , 2007, 19, 305019.	1.8	7
48	Decay of nanoripples on Au(111) studied by He atom scattering. <i>Physical Review B</i> , 2007, 76, .	3.2	14
49	Direct Images of the Virtual Source in a Supersonic Expansion. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12620-12628.	2.5	34
50	Assessment of quantitative imaging of contaminant distributions in porous media. <i>Experiments in Fluids</i> , 2007, 44, 167-177.	2.4	18
51	He scattering study of Au(111) nanostructured by ion sputtering. <i>European Physical Journal Special Topics</i> , 2006, 132, 243-247.	0.2	2
52	Mechanism of adatom formation on Ag(110) studied by combined quasi-elastic He atom scattering and low energy ion scattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 230, 406-412.	1.4	2
53	The smoothing kinetics of Ag(110) studied by thermal energy He atom scattering. <i>Surface Science</i> , 2004, 566-568, 115-121.	1.9	2
54	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

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55	Spectrum of the interaction potential between He and as-deposited self-assembled monolayers of decanethiol chemisorbed on Au(111). <i>Surface Science</i> , 2004, 562, 269-274.	1.9	2
56	A low-energy ion scattering study of Al(110) surface melting. <i>Surface Science</i> , 2003, 532-535, 13-18.	1.9	11
57	Study of the (0 0 1) cleavage planes of guanidinium methanesulfonate single crystals by AFM and He diffraction. <i>Applied Surface Science</i> , 2003, 212-213, 151-156.	6.1	0
58	He diffraction study of the time decay of ripple structures on ion bombarded Ag(1 1 0). <i>Applied Surface Science</i> , 2003, 212-213, 344-348.	6.1	1
59	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
60	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
61	Adatom formation mechanism on Ag(110) studied by quasielastic He atom scattering. <i>Physical Review B</i> , 2003, 68, .	3.2	4
62	Study of He clusters by means of a compact time-of-flight detector for atom scattering. <i>Review of Scientific Instruments</i> , 2003, 74, 4404-4409.	1.3	9
63	Study of He flow properties to test He dimer potentials. <i>Journal of Chemical Physics</i> , 2003, 119, 1433-1441.	3.0	27
64	Atomic diffraction study of the interaction of helium atoms with the surface of an organic single crystal: The (001) cleavage planes of guanidinium methanesulfonate. <i>Journal of Chemical Physics</i> , 2003, 118, 8405-8410.	3.0	6
65	Hyperthermal Molecular Beam Deposition of Highly Ordered Organic Thin Films. <i>Physical Review Letters</i> , 2003, 90, 206101.	7.8	129
66	Study of the interaction potential between He and a self-assembled monolayer of decanethiol. <i>Journal of Chemical Physics</i> , 2003, 119, 6277-6281.	3.0	11
67	Smoothing of nanoscale surface ripples studied by He atom scattering. <i>Physical Review B</i> , 2003, 68, .	3.2	16
68	Residual order within the molten Al(110) surface layer. <i>Physical Review B</i> , 2002, 65, .	3.2	15
69	Surface self-diffusion at intermediate temperature: The Ag(110) case. <i>Physical Review B</i> , 2002, 66, .	3.2	13
70	Anisotropic self-diffusion on Ag(). <i>Surface Science</i> , 2002, 507-510, 129-134.	1.9	11
71	Structural Investigation of Monolayers Prepared by Deposition of (CH ₃ S) ₂ on the (111) Face of Single-Crystal Gold. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11771-11777.	2.6	50
72	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

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73	High-resolution scattering apparatus for surface studies. Review of Scientific Instruments, 2002, 73, 4257-4263.	1.3	16
74	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
75	Self-diffusion on Ag() studied by quasielastic He-atom scattering. Surface Science, 2002, 502-503, 341-346.	1.9	6
76	Low-energy ion scattering study of Al(110) thermal disordering. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 563-567.	1.4	7
77	The surface structure and thermal vibrations of Ag() studied by low energy ion scattering. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 557-562.	1.4	3
78	Surface disordering of Ag() studied by a new high resolution scattering apparatus. Surface Science, 2002, 513, 308-314.	1.9	4
79	The Ag(110) thermal disordering mechanism studied by low-energy ion scattering. Surface Science, 2001, 482-485, 1457-1462.	1.9	11
80	Organic semiconducting thin film growth on an organic substrate:3,4,9,10-perylenetetracarboxylic dianhydride on a monolayer of decanethiol self-assembled on Au(111). Physical Review B, 2000, 61, 7678-7685.	3.2	32
81	Theoretical and experimental study of He free-jet expansions. Physical Review A, 1999, 59, 3084-3087.	2.5	31
82	Vibrational effects on Ag(110) studied by neutral impact-collision ion scattering. Surface Science, 1997, 377-379, 94-97.	1.9	8
83	Temperature dependence of the Ag(110) surface phonons. Surface Science, 1997, 377-379, 325-329.	1.9	12
84	A critical discussion about the roughening temperature estimation: the Ag(110) case. Surface Science, 1997, 377-379, 524-528.	1.9	6
85	Equilibrium morphology of the Ag(110) surface. Surface Science, 1996, 352-354, 968-971.	1.9	6
86	Anharmonic effects at the onset of the Ag(110) roughening transition. Surface Science, 1996, 352-354, 964-967.	1.9	27
87	Energy-resolved He-atom-scattering study of Ag(110) up to 900 K. Physical Review B, 1996, 54, 10385-10388.	3.2	9
88	Anomalous linewidth behaviour of the S 3 surface resonance on Ag(110). Europhysics Letters, 1996, 34, 687-692.	2.0	24
89	Anomalous linewidth behaviour of the S 3 surface resonance on Ag(110). Europhysics Letters, 1996, 35, 726-726.	2.0	0
90	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

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91	Surface lattice dynamics of the $p(3\sqrt{3}\times 1)\sqrt{3}\text{Ag}(110)$ system. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1993, 15, 471-483.	0.4	3
92	On the primary mechanism of surface roughening: the Ag(110) case. Surface Science, 1993, 287-288, 871-875.	1.9	31
93	Impact-collision ion scattering study of Ag(110). Surface Science, 1992, 269-270, 61-67.	1.9	30
94	The missing-row-reconstructed $p(3\sqrt{3}\times 1)\text{O-Ag}(110)$ surface. Surface Science, 1991, 251-252, 498-502.	1.9	6
95	Phonon spectrum of $p(3\sqrt{3}\times 1)\text{O-Ag}(110)$ along $\langle 10 \rangle$. Journal of Electron Spectroscopy and Related Phenomena, 1990, 54-55, 317-324.	1.7	5
96	Oxygen effectiveness in restructuring the Ag(110) surface: The $p(3\sqrt{3}\times 1)\text{O}$ chemisorbed phase. Physical Review B, 1990, 42, 1852-1855.	3.2	24
97	Missing-row reconstruction of Ag(110) induced by a $p(2\sqrt{3}\times 1)$ oxygen overlayer. Physical Review B, 1989, 40, 12271-12279.	3.2	43
98	Surface resonant phonons of Ag(110). Surface Science, 1989, 211-212, 314-322.	1.9	39
99	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
100	Observation of acoustic and optical surface phonons in LiF(001) by inelastic He scattering. Surface Science, 1987, 189-190, 684-688.	1.9	23
101	Phonon spectrum of the $(2\sqrt{3}\times 1)\text{O-Ag}(110)$ surface. Journal of Electron Spectroscopy and Related Phenomena, 1987, 44, 197-204.	1.7	22
102	Surface optical phonons in LiF(001) observed by inelastic helium scattering. Physical Review B, 1986, 34, 9045-9046.	3.2	18
103	Selective adsorption and interaction potential of C_6H_6 on graphite. Surface Science, 1984, 136, 169-183.	1.9	26
104	Diffraction of He atoms from a Xe overlayer adsorbed on graphite (0001). Surface Science Letters, 1983, 125, L81-L86.	0.1	1
105	Diffraction of He atoms from a Xe overlayer adsorbed on graphite (0001). Surface Science, 1983, 125, L81-L86.	1.9	25