Ernesto Placidi

List of Publications by Year
in descending order

103 papers	1,633 citations	279798 23 h-index	377865 34 g-index
104 all docs	104 docs citations	104 times ranked	2023 citing authors

#	Article	IF	Citations
1	Formulation matters! A spectroscopic and molecular dynamics investigation on the peptide CIGB552 as itself and in its therapeutical formulation. Journal of Peptide Science, 2022, 28, e3356.	1.4	1
2	Reflectance anisotropy spectroscopy of strain-engineered GaAsBi alloys. Applied Physics Letters, 2022, 120, .	3.3	5
3	Biomedical NiTi and Î²-Ti Alloys: From Composition, Microstructure and Thermo-Mechanics to Application. Metals, 2022, 12, 406.	2.3	21
4	Interface Formation during the Growth of Phase Change Material Heterostructures Based on Ge-Rich Ge-Sb-Te Alloys. Nanomaterials, 2022, 12, 1007.	4.1	4
5	Gap Opening in Double-Sided Highly Hydrogenated Free-Standing Graphene. Nano Letters, 2022, 22, 2971-2977.	9.1	9
6	Growth, Electronic and Electrical Characterization of Ge-Rich Geâ€“Sbâ€“Te Alloy. Nanomaterials, 2022, 12, 1340.	4.1	6
7	Argon and Other Defects in Amorphous SiO2 Coatings for Gravitational-Wave Detectors. Coatings, 2022, 12, 1001.	2.6	5
8	Interactions between Primary Neurons and Graphene Films with Different Structure and Electrical Conductivity. Advanced Functional Materials, 2021, 31, 2005300.	14.9	15
9	Neuronal Networks: Interactions between Primary Neurons and Graphene Films with Different Structure and Electrical Conductivity (Adv. Funct. Mater. 11/2021). Advanced Functional Materials, 2021, 31, 2170075.	14.9	0
10	Effects of the annealing of amorphous Ta2O5 coatings produced by ion beam sputtering concerning the effusion of argon and the chemical composition. Journal of Non-Crystalline Solids, 2021, 557, 120651.	3.1	10
11	Ultrasound-Stimulated PVA Microbubbles for Adhesive Removal from Cellulose-Based Materials: A Groundbreaking Low-Impact Methodology. ACS Applied Materials & Interfaces, 2021, 13, 24207-24217.	8.0	5
12	Environmentally Friendly Graphene Inks for Touch Screen Sensors. Advanced Functional Materials, 2021, 31, 2103287.	14.9	33
13	Tailoring active sites of iron-nitrogen-carbon catalysts for oxygen reduction in alkaline environment: Effect of nitrogen-based organic precursor and pyrolysis atmosphere. Electrochimica Acta, 2021, 391, 138899.	5.2	14
14	Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphene. Nanotechnology, 2021, 32, 035707.	2.6	12
15	Aggregation properties of a therapeutic peptide for rheumatoid arthritis: A spectroscopic and molecular dynamics study. ChemPhysMater, 2021, 1, 62-62.	2.8	2
16	Tuning the morphology of mesoscopic structures of porphyrin macrocycles functionalized by an antimicrobial peptide. Journal of Porphyrins and Phthalocyanines, 2020, 24, 920-928.	0.8	4
17	Tailoring morphology and structure of manganese oxide nanomaterials to enhance oxygen reduction in microbial fuel cells. Synthetic Metals, 2020, 268, 116487.	3.9	10
18	Increasing Optical Efficiency in the Telecommunication Bands of Strain-Engineered Ga(As,Bi) Alloys. Physical Review Applied, 2020, 14, .	3.8	9

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19	Double grain boundary configurations on graphite surfaces. Carbon, 2020, 170, 630-635.	10.3	2
20	A spectroscopic and molecular dynamics study on the aggregation process of a long-acting lipidated therapeutic peptide: the case of semaglutide. Soft Matter, 2020, 16, 10122-10131.	2.7	13
21	Controlling the Formation of Peptide Films: Fully Developed Helical Peptides are Required to Obtain a Homogenous Coating over a Large Area. ChemPlusChem, 2019, 84, 1688-1696.	2.8	5
22	Carbon-supported Fe/Mn-based perovskite-type oxides boost oxygen reduction in bioelectrochemical systems. Carbon, 2019, 145, 716-724.	10.3	47
23	A redox stable Pd-doped perovskite for SOFC applications. Journal of Materials Chemistry A, 2019, 7, 5344-5352.	10.3	33
24	Graphene Oxide Oxygen Content Affects Physical and Biological Properties of Scaffolds Based on Chitosan/Graphene Oxide Conjugates. Materials, 2019, 12, 1142.	2.9	26
25	Two-dimensional antiferromagnetic ordering of the Mn/GaAs(001) interface. Physical Review B, 2019, 99, .	3.2	1
26	Electronic properties of GaAsBi(001) alloys at low Bi content. Physical Review Materials, 2019, 3, .	2.4	5
27	Human insulin fibrillogenesis in the presence of epigallocatechin gallate and melatonin: Structural insights from a biophysical approach. International Journal of Biological Macromolecules, 2018, 115, 1157-1164.	7.5	8
28	MnOx-based electrocatalysts for enhanced oxygen reduction in microbial fuel cell air cathodes. Journal of Power Sources, 2018, 390, 45-53.	7.8	64
29	Remote Electronic Control of DNA-Based Reactions and Nanostructure Assembly. Nano Letters, 2018, 18, 2918-2923.	9.1	22
30	Tuning the Morphology of Nanostructured Peptide Films by the Introduction of a Secondary Structure Conformational Constraint: A Case Study of Hierarchical Self-Assembly. Journal of Physical Chemistry B, 2018, 122, 6305-6313.	2.6	10
31	Influence of surface crystal-orientation on transfer doping of V2O5/H-terminated diamond. Applied Physics Letters, 2018, 112, 181602.	3.3	23
32	Facile synthesis of graphene-phthalocyanine composites as oxygen reduction electrocatalysts in microbial fuel cells. Applied Catalysis B: Environmental, 2018, 237, 699-707.	20.2	89
33	Discriminating between Different Heavy Metal Ions with Fullerene-Derived Nanoparticles. Sensors, 2018, 18, 1496.	3.8	29
34	Tuning the growth for a selective nucleation of chains of Quantum Dots behaving as single photon emitters. Journal of Crystal Growth, 2017, 457, 177-183.	1.5	1
35	Graphene oxide nanoplatforms to enhance catalytic performance of iron phthalocyanine for oxygen reduction reaction in bioelectrochemical systems. Journal of Power Sources, 2017, 356, 381-388.	7.8	75
36	Textured Sb2Te3 films and GeTe/Sb2Te3 superlattices grown on amorphous substrates by molecular beam epitaxy. AIP Advances, 2017, 7, .	1.3	20

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37	The effect of Î²-sheet breaker peptides on metal associated Amyloid-Î² peptide aggregation process. Biophysical Chemistry, 2017, 229, 110-114.	2.8	19
38	Hierarchical transfer of chiral information from the molecular to the mesoscopic scale by Langmuirâ€"Blodgett deposition of tetrasteroid-porphyrins. New Journal of Chemistry, 2017, 41, 639-649.	2.8	11
39	Strain-Engineered Arrays of InAs Quantum Dots on GaAs(001): Epitaxial Growth and Modeling. Nanoscience and Nanotechnology Letters, 2017, 9, 1083-1094.	0.4	0
40	Stress-determined nucleation sites above GaAs-capped arrays of InAs quantum dots. Journal of Applied Physics, 2016, 120, 125704.	2.5	3
41	Anisotropic cation diffusion in the GaAs capping of InAs/GaAs(001) quantum dots. Journal of Applied Physics, 2016, 120, 235303.	2.5	1
42	Role of dietary antioxidant (â^')-epicatechin in the development of Î²-lactoglobulin fibrils. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 766-772.	2.3	16
43	DPPTE Thiolipid Self-Assembled Monolayer: A Critical Assay. Langmuir, 2016, 32, 11560-11572.	3.5	5
44	2D Voronoi tessellation generated by lines and belts of dots. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 516-519.	2.1	1
45	Single QD emission from arrays of QD chains obtained by patterning-free method. International Journal of Higher Education Management, 2015, 1, 33-37.	1.3	3
46	Liposome-Templated Hydrogel Nanoparticles as Vehicles for Enzyme-Based Therapies. Langmuir, 2015, 31, 7572-7580.	3.5	15
47	In-line correlation and ordering of InAs/GaAs multistacked Quantum Dots structures. Journal of Crystal Growth, 2015, 419, 138-142.	1.5	4
48	The transition from 3C SiC(111) to graphene captured by Ultra High Vacuum Scanning Tunneling Microscopy. Carbon, 2015, 91, 378-385.	10.3	36
49	Manipulating surface diffusion and elastic interactions to obtain quantum dot multilayer arrangements over different length scales. Applied Physics Letters, 2014, 105, .	3.3	12
50	Selective growth of InAs quantum dots on GaAs driven by as kinetics. Crystal Research and Technology, 2014, 49, 546-551.	1.3	1
51	Self-Assembly of a Model Peptide Incorporating a Hexa-Histidine Sequence Attached to an Oligo-Alanine Sequence, and Binding to Gold NTA/Nickel Nanoparticles. Biomacromolecules, 2014, 15, 3412-3420.	5.4	24
52	A single-residue substitution inhibits fibrillization of Ala-based pentapeptides. A spectroscopic and molecular dynamics investigation. Soft Matter, 2014, 10, 2508.	2.7	20
53	Aggregation propensity of Aib homoâ€peptides of different length: an insight from molecular dynamics simulations. Journal of Peptide Science, 2014, 20, 494-507.	1.4	16
54	Graphene ripples generated by grain boundaries in highly ordered pyrolytic graphite. Carbon, 2014, 68, 330-336.	10.3	31

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55	Fibrils or Globules? Tuning the Morphology of Peptide Aggregates from Helical Building Blocks. Journal of Physical Chemistry B, 2013, 117, 5448-5459.	2.6	32
56	The Unexpected Role of Arsenic in Driving the Selective Growth of InAs Quantum Dots on GaAs. ACS Nano, 2013, 7, 3868-3875.	14.6	14
57	Role of As in the Anisotropic Positioning of Self-Assembled InAs Quantum Dots. Materials Research Society Symposia Proceedings, 2013, 1551, 3-9.	0.1	0
58	Kinetically driven selective growth of InAs quantum dots on GaAs. Journal of Materials Research, 2013, 28, 3201-3209.	2.6	9
59	Coarsening effect on island-size scaling: The model case InAs/GaAs(001). Physical Review E, 2012, 86, 061605.	2.1	10
60	Scaling behavior of GaAs and GaMnAs quantum rings grown by droplet epitaxy. Applied Physics Letters, 2012, 101, 141901.	3.3	6
61	InAs Epitaxy on GaAs(001): A Model Case of Strain-Driven Self-assembling of Quantum Dots. , 2012, , 73-125.		3
62	Magnetoelectric properties of oxygenated (Ga,Mn)As. Physical Review B, 2011, 83, .	3.2	1
63	Comparative study of low temperature growth of InAs and InMnAs quantum dots. Nanotechnology, 2011, 22, 195602.	2.6	6
64	Magnetism and carrier modulation in (Ga,Mn)As/organic-dye hybrid devices. Applied Physics Letters, 2011, 98, 022503.	3.3	1
65	Optical techniques for pump-probe magnetic measurements and nanoimaging of biological samples. Rendiconti Lincei, 2011, 22, 49-57.	2.2	0
66	The role of kinetics on the Mn-induced reconstructions of the GaAs(001) surface. Journal of Applied Physics, 2011, 109, .	2.5	6
67	Magnetic aftereffect in compressively strained GaMnAs studied using Kerr microscopy. Physical Review B, 2010, 81, .	3.2	2
68	Temperature-dependent NÃ©el wall dynamics in GaMnAs/GaAs. New Journal of Physics, 2010, 12, 093022.	2.9	7
69	Temperature dependence of the size distribution function of InAs quantum dots on GaAs(001). Physical Review B, 2010, 81, .	3.2	32
70	Self-Assembly of a Designed Amyloid Peptide Containing the Functional Thienylalanine Unit. Journal of Physical Chemistry B, 2010, 114, 10674-10683.	2.6	24
71	XPS and STM study of Mn incorporation on the GaAs(001) surface. Superlattices and Microstructures, 2009, 46, 258-265.	3.1	4
72	Selective growth of InAs quantum dots on SiO₂-masked GaAs. Journal of Nanophotonics, 2009, 3, 031995.	1.0	3

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73	Annealing effects on faceting of InAsâˆ•GaAs(001) quantum dots. Applied Physics Letters, 2009, 94, 021901.	3.3	21
74	Single quantum dot emission by nanoscale selective growth of InAs on GaAs: A bottom-up approach. Applied Physics Letters, 2008, 93, 231904.	3.3	10
75	Complex domain-wall dynamics in compressively strained<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ga</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml: Physical Review B, 2008, 78, .	3.2	10
76	The InAs/GaAs(001) Quantum Dots Transition: Advances on Understanding. , 2008, , 1-23.		3
77	Sudden nucleation versus scale invariance of InAs quantum dots on GaAs. Physical Review B, 2007, 75, .	3.2	29
78	InAs/GaAs(001) epitaxy: kinetic effects in the two-dimensional to three-dimensional transition. Journal of Physics Condensed Matter, 2007, 19, 225006.	1.8	31
79	Influence of patterning on the nucleation of Ge islands on Si and SiO2 surfaces. Surface Science, 2007, 601, 2778-2782.	1.9	17
80	The Influence of the Wetting Layer Morphology on the Nucleation and the Evolution of InAs/GaAs (001) Quantum Dots. Semiconductor Conference, 2009 CAS 2009 International, 2007, , .	0.0	0
81	Chemically prepared well-ordered InP(001) surfaces. Surface Science, 2006, 600, 3160-3166.	1.9	22
82	How kinetics drives the two- to three-dimensional transition in semiconductor strained heterostructures: The case of InAsâˆ•GaAs(001). Applied Physics Letters, 2006, 89, 041904.	3.3	37
83	Apparent critical thickness versus temperature for InAs quantum dot growth on GaAs(001). Applied Physics Letters, 2006, 88, 161903.	3.3	49
84	Adsorption of molecular oxygen on GaAs(001) studied using high-resolution electron energy-loss spectroscopy. Physical Review B, 2006, 73, .	3.2	7
85	Valence band and In-4d core level photoemission study of de-capped and ion-bombarded-annealed InAs(001) epitaxial surfaces. Surface Science, 2005, 576, 123-130.	1.9	11
86	Step erosion during nucleation of InAsâˆ•GaAs(001) quantum dots. Applied Physics Letters, 2005, 86, 241913.	3.3	50
87	Geometric structure and optical properties of theGaAs(001)â˜c(4Ã—4)surface. Physical Review B, 2005, 71, .	3.2	19
88	Reflection high energy electron diffraction observation of surface mass transport at the two- to three-dimensional growth transition of InAs on GaAs(001). Applied Physics Letters, 2005, 87, 252101.	3.3	27
89	Surface states at theGaAs(001)2Ã—4surface. Physical Review B, 2004, 69, .	3.2	19
90	Self-assembly of InAs and Si/Ge quantum dots on structured surfaces. Journal of Physics Condensed Matter, 2004, 16, S1503-S1534.	1.8	31

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91	Well-ordered (100) InAs surfaces using wet chemical treatments. Surface Science, 2004, 570, 237-244.	1.9	17
92	Structural study of the InAs quantum-dot nucleation on GaAs(001). Microelectronics Journal, 2003, 34, 419-422.	2.0	0
93	Electronic anisotropy of the GaAs(001) surface studied by energy loss spectroscopy. Microelectronics Journal, 2003, 34, 595-597.	2.0	0
94	The GaAs()-c(4Ã—4) surface: a new perspective from energy loss spectra. Surface Science, 2003, 524, L71-L76.	1.9	12
95	Anisotropy of the GaAs(001)-Î²2(2Ã—4) surface from high-resolution electron energy loss spectroscopy. Physical Review B, 2003, 67, .	3.2	9
96	Surface versus bulk contributions from reflectance anisotropy and electron energy loss spectra of theGaAs(001)â˜c(4Ã—4)surface. Physical Review B, 2003, 68, .	3.2	22
97	Tracing the two- to three-dimensional transition in the InAs/GaAs(001) heteroepitaxial growth. Physical Review B, 2003, 67, .	3.2	69
98	Morphological instabilities of the InAs/GaAs(001) interface and their effect on the self-assembling of InAs quantum-dot arrays. Applied Physics Letters, 2002, 81, 2270-2272.	3.3	29
99	Morphology of Self-Assembled InAs Quantum Dots on GaAs(001). Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	0
100	Morphology of Self-Assembled InAs Quantum Dots on GaAs(001).. Materials Research Society Symposia Proceedings, 2001, 707, 671.	0.1	0
101	Kinetic aspects of the morphology of self-assembled InAs quantum dots on GaAs(001). Applied Physics Letters, 2001, 78, 320-322.	3.3	40
102	Scaling law and dynamical exponent in the Volmerâ€"Weber growth mode: silver on GaAs(001)2Ã—4. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 243-246.	3.5	18
103	Dynamic behavior of silver islands growing on GaAs(001)2Ã—4 substrate. Surface Science, 2000, 445, L17-L22.	1.9	8