

# Ernesto Placidi

## List of Publications by Year in descending order

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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	Facile synthesis of graphene-phthalocyanine composites as oxygen reduction electrocatalysts in microbial fuel cells. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 699-707.	20.2	89
2	Graphene oxide nanoplateforms to enhance catalytic performance of iron phthalocyanine for oxygen reduction reaction in bioelectrochemical systems. <i>Journal of Power Sources</i> , 2017, 356, 381-388.	7.8	75
3	Tracing the two- to three-dimensional transition in the InAs/GaAs(001) heteroepitaxial growth. <i>Physical Review B</i> , 2003, 67, .	3.2	69
4	MnOx-based electrocatalysts for enhanced oxygen reduction in microbial fuel cell air cathodes. <i>Journal of Power Sources</i> , 2018, 390, 45-53.	7.8	64
5	Step erosion during nucleation of InAs/GaAs(001) quantum dots. <i>Applied Physics Letters</i> , 2005, 86, 241913.	3.3	50
6	Apparent critical thickness versus temperature for InAs quantum dot growth on GaAs(001). <i>Applied Physics Letters</i> , 2006, 88, 161903.	3.3	49
7	Carbon-supported Fe/Mn-based perovskite-type oxides boost oxygen reduction in bioelectrochemical systems. <i>Carbon</i> , 2019, 145, 716-724.	10.3	47
8	Kinetic aspects of the morphology of self-assembled InAs quantum dots on GaAs(001). <i>Applied Physics Letters</i> , 2001, 78, 320-322.	3.3	40
9	How kinetics drives the two- to three-dimensional transition in semiconductor strained heterostructures: The case of InAs/GaAs(001). <i>Applied Physics Letters</i> , 2006, 89, 041904.	3.3	37
10	The transition from 3C SiC(111) to graphene captured by Ultra High Vacuum Scanning Tunneling Microscopy. <i>Carbon</i> , 2015, 91, 378-385.	10.3	36
11	A redox stable Pd-doped perovskite for SOFC applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5344-5352.	10.3	33
12	Environmentally Friendly Graphene Inks for Touch Screen Sensors. <i>Advanced Functional Materials</i> , 2021, 31, 2103287.	14.9	33
13	Temperature dependence of the size distribution function of InAs quantum dots on GaAs(001). <i>Physical Review B</i> , 2010, 81, .	3.2	32
14	Fibrils or Globules? Tuning the Morphology of Peptide Aggregates from Helical Building Blocks. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5448-5459.	2.6	32
15	Self-assembly of InAs and Si/Ge quantum dots on structured surfaces. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S1503-S1534.	1.8	31
16	InAs/GaAs(001) epitaxy: kinetic effects in the two-dimensional to three-dimensional transition. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 225006.	1.8	31
17	Graphene ripples generated by grain boundaries in highly ordered pyrolytic graphite. <i>Carbon</i> , 2014, 68, 330-336.	10.3	31
18	Morphological instabilities of the InAs/GaAs(001) interface and their effect on the self-assembling of InAs quantum-dot arrays. <i>Applied Physics Letters</i> , 2002, 81, 2270-2272.	3.3	29

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19	Sudden nucleation versus scale invariance of InAs quantum dots on GaAs. <i>Physical Review B</i> , 2007, 75, .	3.2	29
20	Discriminating between Different Heavy Metal Ions with Fullerene-Derived Nanoparticles. <i>Sensors</i> , 2018, 18, 1496.	3.8	29
21	Reflection high energy electron diffraction observation of surface mass transport at the two- to three-dimensional growth transition of InAs on GaAs(001). <i>Applied Physics Letters</i> , 2005, 87, 252101.	3.3	27
22	Graphene Oxide Oxygen Content Affects Physical and Biological Properties of Scaffolds Based on Chitosan/Graphene Oxide Conjugates. <i>Materials</i> , 2019, 12, 1142.	2.9	26
23	Self-Assembly of a Designed Amyloid Peptide Containing the Functional Thienylalanine Unit. <i>Journal of Physical Chemistry B</i> , 2010, 114, 10674-10683.	2.6	24
24	Self-Assembly of a Model Peptide Incorporating a Hexa-Histidine Sequence Attached to an Oligo-Alanine Sequence, and Binding to Gold NTA/Nickel Nanoparticles. <i>Biomacromolecules</i> , 2014, 15, 3412-3420.	5.4	24
25	Influence of surface crystal-orientation on transfer doping of V2O5/H-terminated diamond. <i>Applied Physics Letters</i> , 2018, 112, 181602.	3.3	23
26	Surface versus bulk contributions from reflectance anisotropy and electron energy loss spectra of the GaAs(001) $\sqrt{3}\times\sqrt{3}$ surface. <i>Physical Review B</i> , 2003, 68, .	3.2	22
27	Chemically prepared well-ordered InP(001) surfaces. <i>Surface Science</i> , 2006, 600, 3160-3166.	1.9	22
28	Remote Electronic Control of DNA-Based Reactions and Nanostructure Assembly. <i>Nano Letters</i> , 2018, 18, 2918-2923.	9.1	22
29	Annealing effects on faceting of InAs/GaAs(001) quantum dots. <i>Applied Physics Letters</i> , 2009, 94, 021901.	3.3	21
30	Biomedical NiTi and $\beta$ -Ti Alloys: From Composition, Microstructure and Thermo-Mechanics to Application. <i>Metals</i> , 2022, 12, 406.	2.3	21
31	A single-residue substitution inhibits fibrillization of Ala-based pentapeptides. A spectroscopic and molecular dynamics investigation. <i>Soft Matter</i> , 2014, 10, 2508.	2.7	20
32	Textured Sb2Te3 films and GeTe/Sb2Te3 superlattices grown on amorphous substrates by molecular beam epitaxy. <i>AIP Advances</i> , 2017, 7, .	1.3	20
33	Surface states at the GaAs(001) $\sqrt{3}\times\sqrt{3}$ surface. <i>Physical Review B</i> , 2004, 69, .	3.2	19
34	Geometric structure and optical properties of the GaAs(001) $\sqrt{3}\times\sqrt{3}$ surface. <i>Physical Review B</i> , 2005, 71, .	3.2	19
35	The effect of $\beta$ -sheet breaker peptides on metal associated Amyloid- $\beta$ peptide aggregation process. <i>Biophysical Chemistry</i> , 2017, 229, 110-114.	2.8	19
36	Scaling law and dynamical exponent in the Volmer-Weber growth mode: silver on GaAs(001) $\sqrt{3}\times\sqrt{3}$ surface. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 69-70, 243-246.	3.5	18

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37	Well-ordered (100) InAs surfaces using wet chemical treatments. <i>Surface Science</i> , 2004, 570, 237-244.	1.9	17
38	Influence of patterning on the nucleation of Ge islands on Si and SiO <sub>2</sub> surfaces. <i>Surface Science</i> , 2007, 601, 2778-2782.	1.9	17
39	Aggregation propensity of Aib homo-peptides of different length: an insight from molecular dynamics simulations. <i>Journal of Peptide Science</i> , 2014, 20, 494-507.	1.4	16
40	Role of dietary antioxidant (âˆˆ)-epicatechin in the development of Î²-lactoglobulin fibrils. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 766-772.	2.3	16
41	Liposome-Templated Hydrogel Nanoparticles as Vehicles for Enzyme-Based Therapies. <i>Langmuir</i> , 2015, 31, 7572-7580.	3.5	15
42	Interactions between Primary Neurons and Graphene Films with Different Structure and Electrical Conductivity. <i>Advanced Functional Materials</i> , 2021, 31, 2005300.	14.9	15
43	The Unexpected Role of Arsenic in Driving the Selective Growth of InAs Quantum Dots on GaAs. <i>ACS Nano</i> , 2013, 7, 3868-3875.	14.6	14
44	Tailoring active sites of iron-nitrogen-carbon catalysts for oxygen reduction in alkaline environment: Effect of nitrogen-based organic precursor and pyrolysis atmosphere. <i>Electrochimica Acta</i> , 2021, 391, 138899.	5.2	14
45	A spectroscopic and molecular dynamics study on the aggregation process of a long-acting lipidated therapeutic peptide: the case of semaglutide. <i>Soft Matter</i> , 2020, 16, 10122-10131.	2.7	13
46	The GaAs(-)c(4Å–4) surface: a new perspective from energy loss spectra. <i>Surface Science</i> , 2003, 524, L71-L76.	1.9	12
47	Manipulating surface diffusion and elastic interactions to obtain quantum dot multilayer arrangements over different length scales. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	12
48	Towards free-standing graphene: atomic hydrogen and deuterium bonding to nano-porous graphene. <i>Nanotechnology</i> , 2021, 32, 035707.	2.6	12
49	Valence band and In-4d core level photoemission study of de-capped and ion-bombarded-annealed InAs(001) epitaxial surfaces. <i>Surface Science</i> , 2005, 576, 123-130.	1.9	11
50	Hierarchical transfer of chiral information from the molecular to the mesoscopic scale by Langmuir–Blodgett deposition of tetraasteroid-porphyrins. <i>New Journal of Chemistry</i> , 2017, 41, 639-649.	2.8	11
51	Single quantum dot emission by nanoscale selective growth of InAs on GaAs: A bottom-up approach. <i>Applied Physics Letters</i> , 2008, 93, 231904.	3.3	10
52	Complex domain-wall dynamics in compressively strained $Ga_{1-x}In_xAs$ . <i>Physical Review B</i> , 2008, 78, .	3.2	10
53	Coarsening effect on island-size scaling: The model case InAs/GaAs(001). <i>Physical Review E</i> , 2012, 86, 061605.	2.1	10
54	Tuning the Morphology of Nanostructured Peptide Films by the Introduction of a Secondary Structure Conformational Constraint: A Case Study of Hierarchical Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6305-6313.	2.6	10

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55	Tailoring morphology and structure of manganese oxide nanomaterials to enhance oxygen reduction in microbial fuel cells. <i>Synthetic Metals</i> , 2020, 268, 116487.	3.9	10
56	Effects of the annealing of amorphous Ta <sub>2</sub> O <sub>5</sub> coatings produced by ion beam sputtering concerning the effusion of argon and the chemical composition. <i>Journal of Non-Crystalline Solids</i> , 2021, 557, 120651.	3.1	10
57	Anisotropy of the GaAs(001)- $\sqrt{2} \times \sqrt{2}$ surface from high-resolution electron energy loss spectroscopy. <i>Physical Review B</i> , 2003, 67, .	3.2	9
58	Kinetically driven selective growth of InAs quantum dots on GaAs. <i>Journal of Materials Research</i> , 2013, 28, 3201-3209.	2.6	9
59	Increasing Optical Efficiency in the Telecommunication Bands of Strain-Engineered Ga(As,Bi) Alloys. <i>Physical Review Applied</i> , 2020, 14, .	3.8	9
60	Gap Opening in Double-Sided Highly Hydrogenated Free-Standing Graphene. <i>Nano Letters</i> , 2022, 22, 2971-2977.	9.1	9
61	Dynamic behavior of silver islands growing on GaAs(001) $\sqrt{2} \times \sqrt{2}$ substrate. <i>Surface Science</i> , 2000, 445, L17-L22.	1.9	8
62	Human insulin fibrillogenesis in the presence of epigallocatechin gallate and melatonin: Structural insights from a biophysical approach. <i>International Journal of Biological Macromolecules</i> , 2018, 115, 1157-1164.	7.5	8
63	Adsorption of molecular oxygen on GaAs(001) studied using high-resolution electron energy-loss spectroscopy. <i>Physical Review B</i> , 2006, 73, .	3.2	7
64	Temperature-dependent Néel wall dynamics in GaMnAs/GaAs. <i>New Journal of Physics</i> , 2010, 12, 093022.	2.9	7
65	Comparative study of low temperature growth of InAs and InMnAs quantum dots. <i>Nanotechnology</i> , 2011, 22, 195602.	2.6	6
66	The role of kinetics on the Mn-induced reconstructions of the GaAs(001) surface. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	6
67	Scaling behavior of GaAs and GaMnAs quantum rings grown by droplet epitaxy. <i>Applied Physics Letters</i> , 2012, 101, 141901.	3.3	6
68	Growth, Electronic and Electrical Characterization of Ge-Rich Ge <sub>1-x</sub> Sb <sub>x</sub> Te Alloy. <i>Nanomaterials</i> , 2022, 12, 1340.	4.1	6
69	DPPE Thiolipid Self-Assembled Monolayer: A Critical Assay. <i>Langmuir</i> , 2016, 32, 11560-11572.	3.5	5
70	Controlling the Formation of Peptide Films: Fully Developed Helical Peptides are Required to Obtain a Homogenous Coating over a Large Area. <i>ChemPlusChem</i> , 2019, 84, 1688-1696.	2.8	5
71	Ultrasound-Stimulated PVA Microbubbles for Adhesive Removal from Cellulose-Based Materials: A Groundbreaking Low-Impact Methodology. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 24207-24217.	8.0	5
72	Electronic properties of GaAsBi(001) alloys at low Bi content. <i>Physical Review Materials</i> , 2019, 3, .	2.4	5

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73	Reflectance anisotropy spectroscopy of strain-engineered GaAsBi alloys. Applied Physics Letters, 2022, 120, .	3.3	5
74	Argon and Other Defects in Amorphous SiO <sub>2</sub> Coatings for Gravitational-Wave Detectors. Coatings, 2022, 12, 1001.	2.6	5
75	XPS and STM study of Mn incorporation on the GaAs(001) surface. Superlattices and Microstructures, 2009, 46, 258-265.	3.1	4
76	In-line correlation and ordering of InAs/GaAs multistacked Quantum Dots structures. Journal of Crystal Growth, 2015, 419, 138-142.	1.5	4
77	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
78	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
79	Selective growth of InAs quantum dots on SiO <sub>2</sub> -masked GaAs. Journal of Nanophotonics, 2009, 3, 031995.	1.0	3
80	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
81	Stress-determined nucleation sites above GaAs-capped arrays of InAs quantum dots. Journal of Applied Physics, 2016, 120, 125704.	2.5	3
82	The InAs/GaAs(001) Quantum Dots Transition: Advances on Understanding. , 2008, , 1-23.		3
83	InAs Epitaxy on GaAs(001): A Model Case of Strain-Driven Self-assembling of Quantum Dots. , 2012, , 73-125.		3
84	Magnetic aftereffect in compressively strained GaMnAs studied using Kerr microscopy. Physical Review B, 2010, 81, .	3.2	2
85	Double grain boundary configurations on graphite surfaces. Carbon, 2020, 170, 630-635.	10.3	2
86	Aggregation properties of a therapeutic peptide for rheumatoid arthritis: A spectroscopic and molecular dynamics study. ChemPhysMater, 2021, 1, 62-62.	2.8	2
87	Magnetoelectric properties of oxygenated (Ga,Mn)As. Physical Review B, 2011, 83, .	3.2	1
88	Magnetism and carrier modulation in (Ga,Mn)As/organic-dye hybrid devices. Applied Physics Letters, 2011, 98, 022503.	3.3	1
89	Selective growth of InAs quantum dots on GaAs driven by as kinetics. Crystal Research and Technology, 2014, 49, 546-551.	1.3	1
90	Anisotropic cation diffusion in the GaAs capping of InAs/GaAs(001) quantum dots. Journal of Applied Physics, 2016, 120, 235303.	2.5	1

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91	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
92	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
93	Two-dimensional antiferromagnetic ordering of the Mn/GaAs(001) interface. Physical Review B, 2019, 99, .	3.2	1
94	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
95	Morphology of Self-Assembled InAs Quantum Dots on GaAs(001). Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	0
96	Morphology of Self-Assembled InAs Quantum Dots on GaAs(001).. Materials Research Society Symposia Proceedings, 2001, 707, 671.	0.1	0
97	Structural study of the InAs quantum-dot nucleation on GaAs(001). Microelectronics Journal, 2003, 34, 419-422.	2.0	0
98	Electronic anisotropy of the GaAs(001) surface studied by energy loss spectroscopy. Microelectronics Journal, 2003, 34, 595-597.	2.0	0
99	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
100	Optical techniques for pump-probe magnetic measurements and nanoimaging of biological samples. Rendiconti Lincei, 2011, 22, 49-57.	2.2	0
101	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
102	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
103	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