

Vincenzo Lordi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

2,876
citations

24
h-index

52
g-index

97
ext. papers

3,185
ext. citations

4.1
avg, IF

5.21
L-index

#	Paper	IF	Citations
87	Method for Supporting Platinum on Single-Walled Carbon Nanotubes for a Selective Hydrogenation Catalyst. <i>Chemistry of Materials</i> , 2001 , 13, 733-737	9.6	409
86	Young's modulus of single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 1998 , 84, 1939-1943	2.5	306
85	Molecular mechanics of binding in carbon-nanotube-polymer composites. <i>Journal of Materials Research</i> , 2000 , 15, 2770-2779	2.5	300
84	Computational and Photoelectrochemical Study of Hydrogenated Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10957-10964	3.8	185
83	Lithium ion solvation and diffusion in bulk organic electrolytes from first-principles and classical reactive molecular dynamics. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1535-45	3.4	123
82	Atomistic design of thermoelectric properties of silicon nanowires. <i>Nano Letters</i> , 2008 , 8, 1111-4	11.5	116
81	Nearest-neighbor configuration in (GaIn)(NAs) probed by x-ray absorption spectroscopy. <i>Physical Review Letters</i> , 2003 , 90, 145505	7.4	112
80	Structure and Oxidation Patterns of Carbon Nanotubes. <i>Journal of Materials Research</i> , 1998 , 13, 2432-2437	3.7	102
79	Solvation and Dynamics of Sodium and Potassium in Ethylene Carbonate from ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21913-21920	3.8	99
78	. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 656-664	2	68
77	Radial compression and controlled cutting of carbon nanotubes. <i>Journal of Chemical Physics</i> , 1998 , 109, 2509-2512	3.9	57
76	Electrical properties of point defects in CdS and ZnS. <i>Applied Physics Letters</i> , 2013 , 103, 102103	3.4	51
75	Development of GaInNAsSb alloys: Growth, band structure, optical properties and applications. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 2707-2729	1.3	51
74	Intrinsic point defects in aluminum antimonide. <i>Physical Review B</i> , 2008 , 77,	3.3	39
73	Charge carrier scattering by defects in semiconductors. <i>Physical Review B</i> , 2010 , 81,	3.3	37
72	Incident wavelength and polarization dependence of spectral shifts in EGaO UV photoluminescence. <i>Scientific Reports</i> , 2018 , 8, 18075	4.9	34
71	Anomalous diffusion along metal/ceramic interfaces. <i>Nature Communications</i> , 2018 , 9, 5251	17.4	33

70	Nearest-neighbor distributions in Ga _{1-x} In _x NyAs _{1-y} and Ga _{1-x} In _x NyAs _{1-y} Sbz thin films upon annealing. <i>Physical Review B</i> , 2005 , 71,	3.3	32
69	Electron correlation and relativity of the 5f electrons in the U ₂ R alloy system. <i>Journal of Nuclear Materials</i> , 2014 , 444, 356-358	3.3	29
68	Point defects in Cd(Zn)Te and TlBr: Theory. <i>Journal of Crystal Growth</i> , 2013 , 379, 84-92	1.6	28
67	Prospects for n-type doping of (Al _x Ga _{1-x}) ₂ O ₃ alloys. <i>Applied Physics Letters</i> , 2020 , 116, 172104	3.4	26
66	Electronic structure and defect properties of B ₆ O from hybrid functional and many-body perturbation theory calculations: A possible ambipolar transparent conductor. <i>Physical Review B</i> , 2014 , 90,	3.3	25
65	Ground-state properties of rare-earth metals: an evaluation of density-functional theory. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 416001	1.8	25
64	Identification of the local sources of paramagnetic noise in superconducting qubit devices fabricated on Al ₂ O ₃ substrates using density-functional calculations. <i>Physical Review Letters</i> , 2014 , 112, 017001	7.4	24
63	Intermixing at the absorber-buffer layer interface in thin-film solar cells: The electronic effects of point defects in Cu(In,Ga)(Se,S) ₂ and Cu ₂ ZnSn(Se,S) ₄ devices. <i>Journal of Applied Physics</i> , 2014 , 116, 063505	2.5	24
62	Carbon nanotube caps as springs: Molecular dynamics simulations. <i>Physical Review B</i> , 1998 , 58, 12649-12651	3.5	24
61	A comparison of point defects in Cd _{1-x} Zn _x Te _{1-y} Se _y crystals grown by Bridgman and traveling heater methods. <i>Journal of Applied Physics</i> , 2017 , 121, 125705	2.5	23
60	Ab initio guided optimization of GaTe for radiation detection applications. <i>Physical Review B</i> , 2011 , 84,	3.3	22
59	Ionic current and polarization effect in TlBr. <i>Physical Review B</i> , 2013 , 87,	3.3	21
58	Extrinsic point defects in aluminum antimonide. <i>Physical Review B</i> , 2010 , 81,	3.3	21
57	Quantum-confined Stark effect of GaInNAs(Sb) quantum wells at 1300-1600nm. <i>Applied Physics Letters</i> , 2004 , 85, 902-904	3.4	21
56	Thermodynamics of SmCo ₅ compound doped with Fe and Ni: An ab initio study. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 659-663	5.7	21
55	Descriptor-Based Approach for the Prediction of Cation Vacancy Formation Energies and Transition Levels. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5059-5063	6.4	17
54	TopoMS: Comprehensive topological exploration for molecular and condensed-matter systems. <i>Journal of Computational Chemistry</i> , 2018 , 39, 936-952	3.5	16
53	Neutron detection with single crystal organic scintillators 2009 ,		16

52	Cd doping at PVD-CdS/CuInGaSe ₂ heterojunctions. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 164, 1286-1344	1.4	15
51	Microstructural and Chemical Investigation of PVD-CdS/PVD- $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ Heterojunctions: A Transmission Electron Microscopy Study. <i>IEEE Journal of Photovoltaics</i> , 2014 , 4, 1625-1629	3.7	15
50	Effects of growth temperature on the structural and optical properties of 1.55 μm GaInNAsSb quantum wells grown on GaAs. <i>Applied Physics Letters</i> , 2005 , 87, 021908	3.4	15
49	First principles calculations of point defect diffusion in CdS buffer layers: Implications for Cu(In,Ga)(Se,S) ₂ and Cu ₂ ZnSn(Se,S) ₄ -based thin-film photovoltaics. <i>Journal of Applied Physics</i> , 2016 , 119, 025703	2.5	15
48	Complex Ion Dynamics in Carbonate Lithium-Ion Battery Electrolytes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6589-6595	3.8	14
47	Green emission from InP-GaP quantum-dot light-emitting diodes. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 895-897	2.2	14
46	First-principles study of atomic and electronic structures of 60° perfect and 30°/90° partial glide dislocations in CdTe. <i>Physical Review B</i> , 2016 , 93,	3.3	13
45	Structural changes on annealing of MBE grown (Ga, In)(N, As) as measured by X-ray absorption fine structure. <i>Journal of Crystal Growth</i> , 2003 , 251, 408-411	1.6	13
44	Perfect Strain Relaxation in Metamorphic Epitaxial Aluminum on Silicon through Primary and Secondary Interface Misfit Dislocation Arrays. <i>ACS Nano</i> , 2018 , 12, 6843-6850	16.7	12
43	Electric-field noise from thermally activated fluctuators in a surface ion trap. <i>Physical Review A</i> , 2019 , 99,	2.6	11
42	Contributions of point defects, chemical disorder, and thermal vibrations to electronic properties of Cd _{1-x} Zn _x Te alloys. <i>Physical Review B</i> , 2013 , 88,	3.3	11
41	Simultaneous control of ionic and electronic conductivity in materials: thallium bromide case study. <i>Physical Review Letters</i> , 2012 , 108, 246604	7.4	11
40	Theory-guided growth of aluminum antimonide single crystals with optimal properties for radiation detection. <i>Applied Physics Letters</i> , 2010 , 97, 142104	3.4	9
39	Effects of antimony and ion damage on carrier localization in molecular-beam-epitaxy-grown GaInNAs. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1320		9
38	Towards probing pentagons on carbon nanotube tips. <i>Surface Science</i> , 1999 , 421, L150-L155	1.8	9
37	Magnetic stability of oxygen defects on the SiO ₂ surface. <i>AIP Advances</i> , 2017 , 7, 025110	1.5	8
36	Assessing the role of hydrogen in Fermi-level pinning in chalcopyrite and kesterite solar absorbers from first-principles calculations. <i>Journal of Applied Physics</i> , 2018 , 123, 161408	2.5	8
35	First principles calculation of point defects and mobility degradation in bulk AlSb for radiation detection application 2007 , 6706, 167		8

34	The role of oxygen doping on elemental intermixing at the PVD-CdS/Cu (InGa)Se ₂ heterojunction. <i>Progress in Photovoltaics: Research and Applications</i> , 2019 , 27, 255-263	6.8	7
33	Radiation Effects on InGaN Quantum Wells and GaN Simultaneously Probed by Ion Beam-Induced Luminescence. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 3633-3637	1.7	6
32	Limits on the Existence of sub-MeV Sterile Neutrinos from the Decay of ⁷ Be in Superconducting Quantum Sensors. <i>Physical Review Letters</i> , 2021 , 126, 021803	7.4	6
31	Hole traps in sodium silicate: First-principles calculations of the mobility edge. <i>Journal of Non-Crystalline Solids</i> , 2015 , 430, 9-15	3.9	5
30	Intermixing and Formation of Cu-Rich Secondary Phases at Sputtered CdS/CuInGaSe ₂ Heterojunctions. <i>IEEE Journal of Photovoltaics</i> , 2016 , 6, 1308-1315	3.7	5
29	Stability of CdZnOS Quaternary Alloys Assessed with First-Principles Calculations. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5673-5677	9.5	4
28	Electronic structure and surface properties of MgB ₂ (0001) upon oxygen adsorption. <i>Physical Review B</i> , 2018 , 97,	3.3	4
27	Effect of chlorination on the TlBr band edges for improved room temperature radiation detectors. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1266-1271	1.3	4
26	Exploring Cd-Zn-O-S alloys for improved buffer layers in thin-film photovoltaics. <i>Physical Review Materials</i> , 2017 , 1,	3.2	4
25	A density-functional theory study of the Al/AlO _x /Al tunnel junction. <i>Journal of Applied Physics</i> , 2020 , 128, 155102	2.5	4
24	Intercalation of Lithium into Graphite: Insights from First-Principles Simulations. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21985-21992	3.8	4
23	Materials science for quantum information science and technology. <i>MRS Bulletin</i> , 2020 , 45, 485-497	3.2	3
22	Quantifying Large Lattice Relaxations in Photovoltaic Devices. <i>Physical Review Applied</i> , 2020 , 13,	4.3	3
21	van der Waals-corrected density functional study of electric field noise heating in ion traps caused by electrode surface adsorbates. <i>New Journal of Physics</i> , 2019 , 21, 053043	2.9	3
20	Comment on "New Ground-State Crystal Structure of Elemental Boron". <i>Physical Review Letters</i> , 2017 , 118, 159601	7.4	3
19	MBE Growth and Characterization of Long Wavelength Dilute Nitride III ^V Alloys 2005 , 1-92		3
18	The role of water vapor during the synthesis of hydrogen doped In ₂ O ₃ . <i>Applied Physics Letters</i> , 2020 , 117, 062103	3.4	3
17	Probing Charge Dynamics in Diamond with an Individual Color Center. <i>Nano Letters</i> , 2021 , 21, 6960-6966	11.5	3

16	Amorphous Phase Change Materials: Structure, Stability and Relation with Their Crystalline Phase. <i>Springer Series in Materials Science</i> , 2015 , 485-509	0.9	2
15	First principles study of the structural, electronic, and optical properties of Sn ²⁺ -doped ZnO/B ₂ O ₅ glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 492, 108-114	3.9	2
14	Cu rich domains and secondary phases in PVD-CdS / PVD-CuIn _{1-x} Ga _x Se ₂ heterojunctions 2015 ,		2
13	Understanding Lithium Solvation and Diffusion through Topological Analysis of First-Principles Molecular Dynamics 2016 ,		2
12	Water ingress mapping in photovoltaic module packaging materials 2018 ,		2
11	2018 ,		2
10	HRTEM of Initial Oxidation of Carbon Nanotube Tips. <i>Microscopy and Microanalysis</i> , 1997 , 3, 421-422	0.5	1
9	Long-wavelength Dilute Nitride-Antimonide Lasers 2005 , 507-578		1
8	Role of ripples in altering the electronic and chemical properties of graphene.. <i>Journal of Chemical Physics</i> , 2022 , 156, 054708	3.9	1
7	Analysis of defects in In ₂ O ₃ :H synthesized in presence of water vapor and hydrogen gas mixture. <i>Journal of Applied Physics</i> , 2021 , 129, 045102	2.5	1
6	Thermodynamic Modeling of the Al-Ce-Cu-Mg-Si System and Its Application to Aluminum-Cerium Alloy Design. <i>Journal of Phase Equilibria and Diffusion</i> , 2020 , 41, 764-783	1	0
5	Advances and opportunities in materials science for scalable quantum computing. <i>MRS Bulletin</i> , 2021 , 46, 589-595	3.2	0
4	Delving into dynamic effects. <i>Nature Chemistry</i> , 2020 , 12, 225-226		17.6
3	Photoluminescence and electroabsorption in GaNAs _{1-x} In _x AsSb heterojunctions. <i>Electronics Letters</i> , 2006 , 42, 52		1.1
2	Study Of Single-Wall Carbon Nanotube-Supported Platinum Catalyst For Selective Hydrogenation Of The Carbonyl Function On An (H)Unsaturated Aldehyde. <i>Microscopy and Microanalysis</i> , 1999 , 5, 142-143	0.5	
1	Behavior of Na and RbF-Treated CdS/Cu(In,Ga)Se ₂ Solar Cells with Stress Testing under Heat, Light, and Junction Bias. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000530	2.5	