

# Leonardo Lari

## List of Publications by Year in descending order

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59  
papers

1,660  
citations

471509

17  
h-index

289244

40  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3124  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractal-like hierarchical organization of bone begins at the nanoscale. <i>Science</i> , 2018, 360, .	12.6	390
2	Tuning Dirac states by strain in the topological insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Nature Physics</i> , 2014, 10, 294-299.	16.7	205
3	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. <i>Scientific Reports</i> , 2017, 7, 45997.	3.3	113
4	Enhanced oxidation of nanoparticles through strain-mediated ionic transport. <i>Nature Materials</i> , 2014, 13, 26-30.	27.5	110
5	Properties of GaN Nanowires Grown by Molecular Beam Epitaxy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 878-888.	2.9	104
6	Heusler-alloy films for spintronic devices. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 423-430.	2.3	70
7	ESTEM imaging of single atoms under controlled temperature and gas environment conditions in catalyst reaction studies. <i>Annalen Der Physik</i> , 2013, 525, 423-429.	2.4	66
8	Room-temperature structural ordering of a Heusler compound $\text{Fe}_{3-x}\text{Mn}_x\text{Si}$ . <i>Physical Review B</i> , 2012, 86, .	3.2	48
9	Visualisation of single atom dynamics and their role in nanocatalysts under controlled reaction environments. <i>Chemical Physics Letters</i> , 2014, 592, 355-359.	2.6	46
10	Exchange Bias in Fe@Cr Core-Shell Nanoparticles. <i>Nano Letters</i> , 2013, 13, 3334-3339.	9.1	42
11	Long-term solar water and CO <sub>2</sub> splitting with photoelectrochemical BiOI/BiVO <sub>4</sub> tandems. <i>Nature Materials</i> , 2022, 21, 864-868.	27.5	41
12	Preparation of hydrosol suspensions of elemental and core-shell nanoparticles by co-deposition with water vapour from the gas-phase in ultra-high vacuum conditions. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	33
13	Ferromagnetic InMnSb multi-phase films study by aberration-corrected (scanning) transmission electron microscopy. <i>Journal of Applied Physics</i> , 2012, 111, 07C311.	2.5	32
14	Fe <sub>3</sub> O <sub>4</sub> (100) thin films with bulk-like properties: growth and atomic characterization. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 022001.	2.8	23
15	Structural evolution of carbon dots during low temperature pyrolysis. <i>Nanoscale</i> , 2022, 14, 910-918.	5.6	21
16	Nanoscale compositional analysis of Ni-based seed crystallites associated with GaN nanowire growth. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2457-2461.	2.7	20
17	Origin of anomalous magnetite properties in crystallographic matched heterostructures: Fe <sub>3</sub> O <sub>4</sub> (111)/MgAl <sub>2</sub> O <sub>4</sub> (111). <i>Journal of Physics Condensed Matter</i> , 2013, 25, 485004.	1.8	17
18	Dynamic wet-ETEM observation of Pt/C electrode catalysts in a moisturized cathode atmosphere. <i>Nanotechnology</i> , 2014, 25, 425702.	2.6	15

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19	Control of gas phase nanoparticle shape and its effect on MRI relaxivity. <i>Materials Research Express</i> , 2015, 2, 035002.	1.6	15
20	Atomic and electronic structure of twin growth defects in magnetite. <i>Scientific Reports</i> , 2016, 6, 20943.	3.3	15
21	Optimizing the Electronic Structure of $\text{In}_2\text{O}_3$ through Mg Doping for $\text{NiO}/\text{In}_2\text{O}_3$ p-n Heterojunction Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53446-53453.	8.0	15
22	Over 50% reduction in the formation energy of Co-based Heusler alloy films by two-dimensional crystallisation. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	14
23	Magnetism and magnetotransport in symmetry matched spinels: $\text{Fe}_3\text{O}_4/\text{MgAl}_2\text{O}_4$ . <i>Journal of Applied Physics</i> , 2013, 113, 17B107.	2.5	13
24	Monolithic mesoporous graphitic composites as super capacitors: from Starbons to Starenes <sup>®</sup> . <i>Journal of Materials Chemistry A</i> , 2018, 6, 1119-1127.	10.3	13
25	Optimisation Study of Co Deposition on Chars from MAP of Waste Tyres as Green Electrodes in ORR for Alkaline Fuel Cells. <i>Energies</i> , 2020, 13, 5646.	3.1	13
26	Carbon Nitride as a Ligand: Selective Hydrogenation of Terminal Alkenes Using $[(\text{C}_5\text{Me}_5)_5\text{IrCl}(\text{C}_3\text{N}_4\text{P}_2\text{N}_4\text{Na}^{\text{TM}})]\text{Cl}$ . <i>Chemistry - A European Journal</i> , 2020, 26, 6862-6868.	10.3	12
27	Structural study of $\text{Fe}_3\text{O}_4(111)$ thin films with bulk like magnetic and magnetotransport behaviour. <i>Journal of Applied Physics</i> , 2014, 115, 17C107.	2.5	11
28	Polar Spinel-Perovskite Interfaces: an atomistic study of $\text{Fe}_3\text{O}_4(111)/\text{SrTiO}_3(111)$ structure and functionality. <i>Scientific Reports</i> , 2016, 6, 29724.	3.3	10
29	Carbon nitride as a ligand: edge-site coordination of $\text{ReCl}(\text{CO})_3$ -fragments to $\text{g-C}_3\text{N}_4$ . <i>Chemical Communications</i> , 2019, 55, 7450-7453.	4.1	10
30	The Effect of Cobalt-Sublattice Disorder on Spin Polarisation in $\text{Co}_2\text{FexMn}_{1-x}\text{Si}$ Heusler Alloys. <i>Materials</i> , 2014, 7, 1473-1482.	2.9	9
31	Effect of film growth rate and thickness on properties of $\text{Ge}/\text{GaAs}(100)$ thin films. <i>Thin Solid Films</i> , 2014, 550, 715-722.	1.8	9
32	Multi-Walled Carbon Nanotubes Supported Pd(II) Complexes: A Supramolecular Approach towards Single-Ion Oxygen Reduction Reaction Catalysts. <i>Energies</i> , 2020, 13, 5539.	3.1	9
33	Defect characterization and analysis of $\text{InAs}$ nanowires grown by Ni-promoted MBE. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2589-2592.	1.8	7
34	Structural study of $\text{Ge}/\text{GaAs}$ thin films. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012040.	0.4	7
35	The effect of interfaces on magnetic activation volumes in single crystal $\text{Co}_2\text{FeSi}$ Heusler alloy thin films. <i>Applied Physics Letters</i> , 2012, 101, 102410.	3.3	7
36	Correlations between atomic structure and giant magnetoresistance ratio in $\text{Co}_2(\text{Fe,Mn})\text{Si}$ spin valves. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 322003.	2.8	7

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37	Growth of polycrystalline Heusler alloys for spintronic devices. Journal Physics D: Applied Physics, 2014, 47, 265002.	2.8	7
38	In situ TEM oxidation study of Fe thin-film transformation to single-crystal magnetite nanoparticles. Journal of Materials Science, 2020, 55, 12897-12905.	3.7	7
39	GaN, AlGaN, HfO <sub>2</sub> -based radial heterostructure nanowires. Journal of Physics: Conference Series, 2010, 209, 012011.	0.4	6
40	Structural and magnetic properties of epitaxial In <sub>1-x</sub> Mn <sub>x</sub> Sb semiconductor alloys with x=0.08. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 032801.	1.2	5
41	Spatially resolved variations in reflectivity across iron oxide thin films. Journal of Magnetism and Magnetic Materials, 2017, 441, 743-749.	2.3	5
42	Linear, tripodal, macrocyclic: Ligand geometry and ORR activity of supported Pd(II) complexes. Inorganica Chimica Acta, 2021, 518, 120250.	2.4	5
43	Comparison of the contrast in conventional and lattice resolved ADF STEM images of InGaAs/GaAs structures using different camera lengths. Journal of Physics: Conference Series, 2011, 326, 012041.	0.4	4
44	Direct observation by transmission electron microscopy of the influence of Ni catalyst-seeds on the growth of GaN-AlGaN axial heterostructure nanowires. Journal of Crystal Growth, 2011, 327, 27-34.	1.5	4
45	Effect of Seed Layers on Polycrystalline $\text{Co}_{1-x}\text{Fe}_x\text{Si}$ Thin Films. IEEE Transactions on Magnetics, 2012, 48, 4006-4009.	2.1	4
46	Characterization of InMnSb epitaxial films for spintronics. Journal of Physics: Conference Series, 2012, 371, 012032.	0.4	4
47	Accurate calibration for the quantification of the Al content in AlGaN epitaxial layers by energy-dispersive X-ray spectroscopy in a Transmission Electron Microscope. Journal of Physics: Conference Series, 2011, 326, 012028.	0.4	3
48	Sample preparation and EFTEM of Meat Samples for Nanoparticle Analysis in Food. Journal of Physics: Conference Series, 2014, 522, 012057.	0.4	3
49	A STEM study of twin defects in Fe <sub>3</sub> O <sub>4</sub> (111)/YZO(111). Journal of Physics: Conference Series, 2014, 522, 012036.	0.4	3
50	Influence of gas environment and heating on atomic structures of platinum nanoparticle catalysts for proton-exchange membrane fuel cells. Nanotechnology, 2019, 30, 175701.	2.6	3
51	Quantitative EELS Analysis of AlGaN Nanowires Grown by Ni Promoted MBE on Sapphire Substrate. Materials Research Society Symposia Proceedings, 2007, 1026, 1.	0.1	2
52	GaN-based radial heterostructure nanowires grown by MBE and ALD. Journal of Physics: Conference Series, 2013, 471, 012039.	0.4	1
53	Correlation of Microstructure and Transport Properties of Multilayered Graphene Spin Valves on SiO <sub>2</sub> /Si. Journal of Physics: Conference Series, 2013, 471, 012048.	0.4	1
54	DIY Tomography sample holder. Journal of Physics: Conference Series, 2015, 644, 012013.	0.4	1

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55	Electron microscopy of AlGaIn-based multilayers for UV laser devices. Journal of Physics: Conference Series, 2010, 241, 012048.	0.4	0
56	An in-house developed annular bright field detection system. Journal of Physics: Conference Series, 2014, 522, 012016.	0.4	0
57	Recent Progress with AC E(S)TEM and Application to Single Atom Catalysis. Microscopy and Microanalysis, 2015, 21, 731-732.	0.4	0
58	In-situ Open Cell TEM/STEM Environmental Study of Iron Oxides Nanoparticles and Sample-Beam Interaction in O <sub>2</sub> gas. Microscopy and Microanalysis, 2018, 24, 260-261.	0.4	0
59	In-situ Visualization and Analysis of Single Atom Dynamics in Chemical Reactions using Novel Environmental-Scanning Transmission Electron Microscopy (ESTEM). Microscopy and Microanalysis, 2018, 24, 1506-1507.	0.4	0