

Leonardo Lari

List of Publications by Year in descending order

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Version: 2024-02-01

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	Structural evolution of carbon dots during low temperature pyrolysis. <i>Nanoscale</i> , 2022, 14, 910-918.	5.6	21
2	Long-term solar water and CO ₂ splitting with photoelectrochemical BiOI/BiVO ₄ tandems. <i>Nature Materials</i> , 2022, 21, 864-868.	27.5	41
3	Linear, tripodal, macrocyclic: Ligand geometry and ORR activity of supported Pd(II) complexes. <i>Inorganica Chimica Acta</i> , 2021, 518, 120250.	2.4	5
4	Optimizing the Electronic Structure of In ₂ O ₃ through Mg Doping for NiO/In ₂ O ₃ p-n Heterojunction Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53446-53453.	8.0	15
5	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
6	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
7	In situ TEM oxidation study of Fe thin-film transformation to single-crystal magnetite nanoparticles. <i>Journal of Materials Science</i> , 2020, 55, 12897-12905.	3.7	7
8	Carbon Nitride as a Ligand: Selective Hydrogenation of Terminal Alkenes Using [(i ^{sup} 5 _C Me ₅)IrCl(g ^{sup} 3 _N CP ^{sup} 2 _{Cl})]Cl. <i>Chemistry - A European Journal</i> , 2020, 26, 6862-6868.	3.8	12
9	Influence of gas environment and heating on atomic structures of platinum nanoparticle catalysts for proton-exchange membrane fuel cells. <i>Nanotechnology</i> , 2019, 30, 175701.	2.6	3
10	Carbon nitride as a ligand: edge-site coordination of ReCl(CO) ₃ -fragments to g-C ₃ N ₄ . <i>Chemical Communications</i> , 2019, 55, 7450-7453.	4.1	10
11	Fractal-like hierarchical organization of bone begins at the nanoscale. <i>Science</i> , 2018, 360, .	12.6	390
12	Monolithic mesoporous graphitic composites as super capacitors: from Starbons to Starenes [®] . <i>Journal of Materials Chemistry A</i> , 2018, 6, 1119-1127.	10.3	13
13	In-situ Open Cell TEM/STEM Environmental Study of Iron Oxides Nanoparticles and Sample-Beam Interaction in O ₂ gas. <i>Microscopy and Microanalysis</i> , 2018, 24, 260-261.	0.4	0
14	In-situ Visualization and Analysis of Single Atom Dynamics in Chemical Reactions using Novel Environmental-Scanning Transmission Electron Microscopy (ESTEM). <i>Microscopy and Microanalysis</i> , 2018, 24, 1506-1507.	0.4	0
15	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. <i>Scientific Reports</i> , 2017, 7, 45997.	3.3	113
16	Spatially resolved variations in reflectivity across iron oxide thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 441, 743-749.	2.3	5
17	Polar Spinel-Perovskite Interfaces: an atomistic study of Fe ₃ O ₄ (111)/SrTiO ₃ (111) structure and functionality. <i>Scientific Reports</i> , 2016, 6, 29724.	3.3	10
18	Atomic and electronic structure of twin growth defects in magnetite. <i>Scientific Reports</i> , 2016, 6, 20943.	3.3	15

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19	Recent Progress with AC E(S)TEM and Application to Single Atom Catalysis. <i>Microscopy and Microanalysis</i> , 2015, 21, 731-732.	0.4	0
20	DIY Tomography sample holder. <i>Journal of Physics: Conference Series</i> , 2015, 644, 012013.	0.4	1
21	Control of gas phase nanoparticle shape and its effect on MRI relaxivity. <i>Materials Research Express</i> , 2015, 2, 035002.	1.6	15
22	Sample preparation and EFTEM of Meat Samples for Nanoparticle Analysis in Food. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012057.	0.4	3
23	Correlations between atomic structure and giant magnetoresistance ratio in $\text{Co}_{2-x}\text{Fe}_x\text{MnSi}$ spin valves. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 322003.	2.8	7
24	The Effect of Cobalt-Sublattice Disorder on Spin Polarisation in $\text{Co}_2\text{Fe}_x\text{Mn}_{1-x}\text{Si}$ Heusler Alloys. <i>Materials</i> , 2014, 7, 1473-1482.	2.9	9
25	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
26	Tuning Dirac states by strain in the topological insulator Bi_2Se_3 . <i>Nature Physics</i> , 2014, 10, 294-299.	16.7	205
27	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
28	Enhanced oxidation of nanoparticles through strain-mediated ionic transport. <i>Nature Materials</i> , 2014, 13, 26-30.	27.5	110
29	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
30	Growth of polycrystalline Heusler alloys for spintronic devices. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 265002.	2.8	7
31	Dynamic wet-E TEM observation of Pt/C electrode catalysts in a moisturized cathode atmosphere. <i>Nanotechnology</i> , 2014, 25, 425702.	2.6	15
32	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
33	An in-house developed annular bright field detection system. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012016.	0.4	0
34	A STEM study of twin defects in $\text{Fe}_3\text{O}_4(111)/\text{YZO}(111)$. <i>Journal of Physics: Conference Series</i> , 2014, 522, 012036.	0.4	3
35	Origin of anomalous magnetite properties in crystallographic matched heterostructures: $\text{Fe}_3\text{O}_4(111)/\text{MgAl}_2\text{O}_4(111)$. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 485004.	1.8	17
36	$\text{Fe}_3\text{O}_4(1\%1)$ thin films with bulk-like properties: growth and atomic characterization. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 022001.	2.8	23

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37	Heusler-alloy films for spintronic devices. Applied Physics A: Materials Science and Processing, 2013, 111, 423-430.	2.3	70
38	Exchange Bias in Fe@Cr Core-Shell Nanoparticles. Nano Letters, 2013, 13, 3334-3339.	9.1	42
39	Magnetism and magnetotransport in symmetry matched spinels: Fe ₃ O ₄ /MgAl ₂ O ₄ . Journal of Applied Physics, 2013, 113, 17B107.	2.5	13
40	GaN-based radial heterostructure nanowires grown by MBE and ALD. Journal of Physics: Conference Series, 2013, 471, 012039.	0.4	1
41	Correlation of Microstructure and Transport Properties of Multilayered Graphene Spin Valves on SiO ₂ /Si. Journal of Physics: Conference Series, 2013, 471, 012048.	0.4	1
42	ESTEM imaging of single atoms under controlled temperature and gas environment conditions in catalyst reaction studies. Annalen Der Physik, 2013, 525, 423-429.	2.4	66
43	Effect of Seed Layers on Polycrystalline $\text{Fe}_{1-x}\text{Co}_x\text{Si}$ Thin Films. IEEE Transactions on Magnetism, 2012, 48, 4006-4009.	2.1	4
44	Structural and magnetic properties of epitaxial In _{1-x} MnxSb semiconductor alloys with $x \leq 0.08$. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 032801.	1.2	5
45	Room-temperature structural ordering of a Heusler compound $\text{Fe}_{3-x}\text{Mn}_x\text{Si}$. Physical Review B, 2012, 86, .	3.2	48
46	Characterization of InMnSb epitaxial films for spintronics. Journal of Physics: Conference Series, 2012, 371, 012032.	0.4	4
47	Structural study of Ge/GaAs thin films. Journal of Physics: Conference Series, 2012, 371, 012040.	0.4	7
48	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. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	33
49	The effect of interfaces on magnetic activation volumes in single crystal Co ₂ FeSi Heusler alloy thin films. Applied Physics Letters, 2012, 101, 102410.	3.3	7
50	Ferromagnetic InMnSb multi-phase films study by aberration-corrected (scanning) transmission electron microscopy. Journal of Applied Physics, 2012, 111, 07C311.	2.5	32
51	Accurate calibration for the quantification of the Al content in AlGaIn epitaxial layers by energy-dispersive X-ray spectroscopy in a Transmission Electron Microscope. Journal of Physics: Conference Series, 2011, 326, 012028.	0.4	3
52	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
53	Properties of GaN Nanowires Grown by Molecular Beam Epitaxy. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 878-888.	2.9	104
54	Direct observation by transmission electron microscopy of the influence of Ni catalyst-seeds on the growth of GaN-AlGaIn axial heterostructure nanowires. Journal of Crystal Growth, 2011, 327, 27-34.	1.5	4

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55	GaN, AlGa ₂ N, HfO ₂ -based radial heterostructure nanowires. Journal of Physics: Conference Series, 2010, 209, 012011.	0.4	6
56	Electron microscopy of AlGa ₂ N-based multilayers for UV laser devices. Journal of Physics: Conference Series, 2010, 241, 012048.	0.4	0
57	Defect characterization and analysis of III-V nanowires grown by Ni-promoted MBE. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2589-2592.	1.8	7
58	Nanoscale compositional analysis of Ni-based seed crystallites associated with GaN nanowire growth. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2457-2461.	2.7	20
59	Quantitative EELS Analysis of AlGa ₂ N Nanowires Grown by Ni Promoted MBE on Sapphire Substrate. Materials Research Society Symposia Proceedings, 2007, 1026, 1.	0.1	2