

Mauro Coduri

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4975254/publications.pdf>

Version: 2024-02-01

70
papers

1,545
citations

304368

22
h-index

329751

37
g-index

74
all docs

74
docs citations

74
times ranked

2298
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, Structure and Magnetic Properties of NiFe ₃ O ₅ . ECS Journal of Solid State Science and Technology, 2022, 11, 013009.	0.9	4
2	Nematic state of the FeSe superconductor. Physical Review B, 2022, 105, .	1.1	3
3	Structure-property correlation in oxide-ion and proton conductors for clean energy applications: recent experimental and computational advancements. Journal of Materials Chemistry A, 2022, 10, 5082-5110.	5.2	23
4	Pressure response of decylammonium-containing 2D iodide perovskites. IScience, 2022, 25, 104057.	1.9	4
5	Enhanced cryogenic and ambient temperature mechanical properties of CoCuFeMnNi high entropy alloy through controlled heat treatment. Journal of Alloys and Compounds, 2022, 910, 164810.	2.8	6
6	Is configurational entropy the main stabilizing term in rock-salt Mg _{0.2} Co _{0.2} Ni _{0.2} Cu _{0.2} Zn _{0.2} O high entropy oxide?. Nature Communications, 2022, 13, .	5.8	18
7	Crystal structure and phase stability of Co ₂ N: A combined first-principles and experimental study. Journal of Alloys and Compounds, 2021, 854, 156341.	2.8	1
8	Insight into the effect of different thermal treatment routes on the microstructure of AlSi7Mg produced by laser powder bed fusion. Materials Characterization, 2021, 172, 110881.	1.9	16
9	Effect of Al Addition on Martensitic Transformation Stability and Microstructural and Mechanical Properties of CuZr Based Shape Memory Alloys. Metals, 2021, 11, 1141.	1.0	0
10	Discovering indium as hydrogen production booster for a Cu/SiO ₂ catalyst in steam reforming of methanol. Applied Catalysis B: Environmental, 2021, 297, 120398.	10.8	26
11	Role of spacer cations and structural distortion in two-dimensional germanium halide perovskites. Journal of Materials Chemistry C, 2021, 9, 9899-9906.	2.7	28
12	Exploring the role of halide mixing in lead-free BZA ₂ SnX ₄ two dimensional hybrid perovskites. Journal of Materials Chemistry A, 2020, 8, 1875-1886.	5.2	21
13	Origin of pressure-induced band gap tuning in tin halide perovskites. Materials Advances, 2020, 1, 2840-2845.	2.6	20
14	The Ba ₃ Mo _{1-x} W _x NbO _{8.5} ion conductors: insights into local coordination from X-ray and neutron total scattering. Journal of Materials Chemistry A, 2020, 8, 21227-21240.	5.2	8
15	Bandgap-adjustment and enhanced surface photovoltage in Y-substituted LaTa _{IV} O ₂ N. Journal of Materials Chemistry A, 2020, 8, 11837-11848.	5.2	12
16	Local Structure and Magnetism of Fe ₂ O ₃ Maghemite Nanocrystals: The Role of Crystal Dimension. Nanomaterials, 2020, 10, 867.	1.9	37
17	Electron Small Polaron and Magnetic Interactions Direct Anisotropic Growth of Silicon-Doped Hematite Nanocrystals. Crystal Growth and Design, 2020, 20, 4719-4730.	1.4	4
18	On the microstructure and superelastic evolution of laser annealed thin NiTiInol wires. Smart Materials and Structures, 2020, 29, 115010.	1.8	2

#	ARTICLE	IF	CITATIONS
19	Hydrogen Embrittlement Behavior of 18Ni 300 Maraging Steel Produced by Selective Laser Melting. <i>Materials</i> , 2019, 12, 2360.	1.3	11
20	Electron-poor copper nanoparticles over amorphous zirconia-silica as all-in-one catalytic sites for the methanol steam reforming. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 118016.	10.8	39
21	Local and Average Structure of Yb-Doped Ceria through Synchrotron and Neutron Pair Distribution Function. <i>Inorganics</i> , 2019, 7, 102.	1.2	2
22	Band Gap Engineering in MASnBr_3 and CsSnBr_3 Perovskites: Mechanistic Insights through the Application of Pressure. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7398-7405.	2.1	57
23	Development of a high strength Al-Zn-Si-Mg-Cu alloy for selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019, 801, 243-253.	2.8	66
24	Evidence for the formation of nanoprecipitates with magnetically disordered regions in bulk Heusler alloys. <i>Physical Review B</i> , 2019, 99, .	1.6	16
25	A new method for simple quantification of Laves phases and precipitates in TiCr_2 alloys. <i>Intermetallics</i> , 2019, 109, 110-122.	1.8	6
26	Tailoring of an unusual oxidation state in a lanthanum tantalum(IV) oxynitride via precursor microstructure design. <i>Communications Chemistry</i> , 2019, 2, .	2.0	13
27	Disorder in LaBaGa_4 ionic conductor: resolving the pair distribution function through insight from first-principles modeling. <i>Journal of Applied Crystallography</i> , 2019, 52, 712-721.	1.9	3
28	Cation, magnetic, and charge ordering in MnFe_3O_5 . <i>Journal of Materials Chemistry C</i> , 2018, 6, 3271-3275.	2.7	14
29	Phase Transformations in the $\text{CeO}_2\text{-Sm}_2\text{O}_3$ System: A Multiscale Powder Diffraction Investigation. <i>Inorganic Chemistry</i> , 2018, 57, 879-891.	1.9	34
30	Microstructure and mechanical behavior of hot-work tool steels processed by Selective Laser Melting. <i>Materials Characterization</i> , 2018, 137, 50-57.	1.9	73
31	Laves phases in selective laser melted $\text{TiCr}_{1.78}$ alloys for hydrogen storage. <i>Materials Letters</i> , 2018, 226, 71-74.	1.3	18
32	Role of defectivity on the crystallography of martensitic transformations in $\text{Ti}_{50}\text{Ni}_{40}\text{Cu}_{10}$: an XRD investigation. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018, 233, 337-348.	0.4	0
33	Combining a nine-crystal multi-analyser stage with a two-dimensional detector for high-resolution powder X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2018, 51, 1721-1733.	1.9	42
34	Effects of Platform Pre-Heating and Thermal-Treatment Strategies on Properties of AlSi10Mg Alloy Processed by Selective Laser Melting. <i>Metals</i> , 2018, 8, 954.	1.0	119
35	Rare Earth Doped Ceria: The Complex Connection Between Structure and Properties. <i>Frontiers in Chemistry</i> , 2018, 6, 526.	1.8	88
36	Complex Cation and Spin Orders in the High-Pressure Ferrite CoFe_3O_5 . <i>Inorganic Chemistry</i> , 2018, 57, 14347-14352.	1.9	8

#	ARTICLE	IF	CITATIONS
37	Synergistic Effects of Active Sites TM Nature and Hydrophilicity on the Oxygen Reduction Reaction Activity of Pt-Free Catalysts. <i>Nanomaterials</i> , 2018, 8, 643.	1.9	11
38	Compositional evolution of the NaZn ₁₃ structure motif in the systems LaNiGa and CeNiGa. <i>Dalton Transactions</i> , 2018, 47, 12951-12963.	1.6	3
39	Laser shape setting of superelastic nitinol wires: Functional properties and microstructure. <i>Functional Materials Letters</i> , 2017, 10, 1740008.	0.7	6
40	From nano to microcrystals: effects of different synthetic pathways on the defect architecture in heavily Gd-doped ceria. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11612-11630.	1.3	39
41	Synthesis of a Cu-Filled Rh ₁₇ S ₁₅ Framework: Microwave Polyol Process Versus High-Temperature Route. <i>Inorganic Chemistry</i> , 2017, 56, 11513-11523.	1.9	3
42	Intermediate-Valence Ytterbium Compound Yb ₄ Ga ₂₄ Pt ₉ : Synthesis, Crystal Structure, and Physical Properties. <i>Inorganic Chemistry</i> , 2017, 56, 9343-9352.	1.9	12
43	Structural Texture Induced in SnSe Thermoelectric Compound via Open Die Pressing. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1571-1578.	0.9	6
44	Unraveling the Multiple Effects Originating the Increased Oxidative Photoactivity of {001}-Facet Enriched Anatase TiO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9745-9754.	4.0	44
45	Morphological Characterization of Shape-Controlled TiO ₂ Anatase through XRPD Analysis. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016, 230, 1233-1248.	1.4	3
46	Synthesis, Crystal Structure, and Magnetic Properties of MnFe ₃ O ₅ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 1355-1358. Relaxor ferroelectric behavior in $\text{Pb}(\text{Mg}_{1-x}\text{Pb}_x)\text{ZrO}_3$	0.6	17
47	$S_r P_r$	1.1	10
48	Structural characterisation of Fe ₂ O ₃ nanoparticles. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012105.	0.3	2
49	Photocatalytic activity of TiO ₂ -WO ₃ mixed oxides in relation to electron transfer efficiency. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 157-165.	10.8	122
50	Size and spatial correlation of defective domains in yttrium-doped CeO ₂ . <i>Powder Diffraction</i> , 2015, 30, S119-S126.	0.4	8
51	Influence of TiHX Addition on SHS Porous Shape Memory Alloy. <i>Materials Today: Proceedings</i> , 2015, 2, S715-S718.	0.9	4
52	Interplay of structural and magnetic nanoscale phase separation in layered cobaltites. <i>Physical Review B</i> , 2015, 92, .	1.1	5
53	Straight Shape Setting of Nitinol Wires by Using a Laser Beam. , 2015, , .		1
54	CuZr Based Shape Memory Alloys: Effect of Co on the Martensitic Transformation and the Microstructure. <i>Materials Today: Proceedings</i> , 2015, 2, S797-S800.	0.9	4

#	ARTICLE	IF	CITATIONS
55	Electron Spin Resonance and Atomic Force Microscopy Study on Gadolinium Doped Ceria. Journal of Spectroscopy, 2015, 2015, 1-6.	0.6	3
56	The High Performance Shape Memory Effect (HP-SME) in Ni Rich NiTi Wires: In Situ X-Ray Diffraction on Thermal Cycling. MATEC Web of Conferences, 2015, 33, 03008.	0.1	2
57	Local apical oxygen disorder in oxygen rich La ₂ NiO _{4.18} , comparing neutron single crystal and n/X-PDF analysis from powder diffraction data. Journal Physics D: Applied Physics, 2015, 48, 504009.	1.3	5
58	The effect of thermal cycling on the martensitic transformation in equiatomic CuZr shape memory alloy. Journal of Alloys and Compounds, 2015, 653, 591-595.	2.8	5
59	Easy Accommodation of Different Oxidation States in Iridium Oxide Nanoparticles with Different Hydration Degree as Water Oxidation Electrocatalysts. ACS Catalysis, 2015, 5, 5104-5115.	5.5	105
60	Percolating hierarchical defect structures drive phase transformation in Ce _{1-x} Gd _x O _{2-x/2} : a total scattering study. IUCrj, 2015, 2, 511-522.	1.0	24
61	Structural characterization of Tb- and Pr-doped ceria. Solid State Ionics, 2014, 268, 150-155.	1.3	24
62	In situ pair distribution function study on lanthanum doped ceria. Physical Chemistry Chemical Physics, 2013, 15, 8495.	1.3	26
63	Defect Structure of Y-Doped Ceria on Different Length Scales. Chemistry of Materials, 2013, 25, 4278-4289.	3.2	69
64	Charge ordering transition in GdBaCo ₂ O ₅ : Evidence of reentrant behavior. Physical Review B, 2013, 88, .	1.1	16
65	Disorder in Oxides. Current Inorganic Chemistry, 2013, 3, 35-49.	0.2	3
66	Local disorder in yttrium doped ceria (Ce _{1-x} Y _x O _{2-x/2}) probed by joint X-ray and Neutron Powder Diffraction. Journal of Physics: Conference Series, 2012, 340, 012056.	0.3	17
67	Rare Earth doped ceria: a combined X-ray and neutron pair distribution function study. Zeitschrift für Kristallographie, 2012, 227, 272-279.	1.1	26
68	Probing Complex Disorder in Ce _{1-x} Gd _x O _{2-x/2} Using the Pair Distribution Function Analysis. Chemistry of Materials, 2012, 24, 1338-1345.	3.2	68
69	Differential Pair Distribution Function applied to Ce _{1-x} Gd _x O _{2-x/2} system. , 2011, , 15-20.		2
70	Effect of Local Disorder on the Transport Properties of Al-Doped SmBa ₂ Cu ₃ O _{6+δ} Superconductors. Journal of Physical Chemistry C, 2010, 114, 19509-19520.	1.5	8