

Federico Baiutti

List of Publications by Year in descending order

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44
papers

491
citations

686830

13
h-index

713013

21
g-index

50
all docs

50
docs citations

50
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature superconductivity in space-charge regions of lanthanum cuprate induced by two-dimensional doping. <i>Nature Communications</i> , 2015, 6, 8586.	5.8	53
2	Nanostructured Materials and Interfaces for Advanced Ionic Electronic Conducting Oxides. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900462.	1.9	39
3	A high-entropy manganite in an ordered nanocomposite for long-term application in solid oxide cells. <i>Nature Communications</i> , 2021, 12, 2660.	5.8	37
4	Towards precise defect control in layered oxide structures by using oxide molecular beam epitaxy. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 596-602.	1.5	31
5	Infiltrated mesoporous oxygen electrodes for high temperature co-electrolysis of H ₂ O and CO ₂ in solid oxide electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9699-9707.	5.2	29
6	Dopant size effects on novel functionalities: High-temperature interfacial superconductivity. <i>Scientific Reports</i> , 2017, 7, 453.	1.6	28
7	Engineering mass transport properties in oxide ionic and mixed ionic-electronic thin film ceramic conductors for energy applications. <i>Journal of the European Ceramic Society</i> , 2019, 39, 101-114.	2.8	24
8	Cationic Redistribution at Epitaxial Interfaces in Superconducting Two-Dimensionally Doped Lanthanum Cuprate Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27368-27375.	4.0	19
9	Superconductivity drives magnetism in $\hat{\Gamma}$ -doped La_2CuO_4 . <i>Physical Review B</i> , 2018, 97, 080407.	1.1	18
10	Atomic-Scale Quantitative Analysis of Lattice Distortions at Interfaces of Two-Dimensionally Sr-Doped La_2CuO_4 Superlattices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6763-6769.	4.0	16
11	Octahedral Distortions at High-Temperature Superconducting La_2CuO_4 Interfaces: Visualizing Jahn-Teller Effects. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700737.	1.9	15
12	Co-electrolysis of steam and carbon dioxide in large area solid oxide cells based on infiltrated mesoporous oxygen electrodes. <i>Journal of Power Sources</i> , 2020, 478, 228774.	4.0	15
13	Exploring point defects and trap states in undoped SrTiO ₃ single crystals. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1510-1521.	2.8	14
14	Tailored nano-columnar La_2NiO_4 cathodes for improved electrode performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2528-2540.	5.2	13
15	High-temperature superconductivity at the lanthanum cuprate/lanthanum-strontium nickelate interface. <i>Nanoscale</i> , 2018, 10, 8712-8720.	2.8	12
16	High-Temperature Thermoelectricity in La_2CuO_4 Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22786-22792.	4.0	12
17	Improved mesostructured oxygen electrodes for highly performing solid oxide cells for co-electrolysis of steam and carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27458-27468.	5.2	11
18	Direct Measurement of Oxygen Mass Transport at the Nanoscale. <i>Advanced Materials</i> , 2021, 33, e2105622.	11.1	11

#	ARTICLE	IF	CITATIONS
19	SrTiO ₃ based high temperature solid oxide solar cells: Photovoltages, photocurrents and mechanistic insight. Solid State Ionics, 2021, 368, 115700.	1.3	10
20	Route to High-Performance Micro-solid Oxide Fuel Cells on Metallic Substrates. ACS Applied Materials & Interfaces, 2021, 13, 4117-4125.	4.0	9
21	Defect energetics in the SrTiO ₃ -LaCrO ₃ system. Solid State Ionics, 2021, 361, 115570.	1.3	9
22	On the thermoelectric properties of Nb-doped SrTiO ₃ epitaxial thin films. Physical Chemistry Chemical Physics, 2022, 24, 3741-3748.	1.3	9
23	Surface chemistry and porosity engineering through etching reveal ultrafast oxygen reduction kinetics below 400 Å°C in B-site exposed (La,Sr)(Co,Fe)O ₃ thin-films. Journal of Power Sources, 2022, 523, 230983.	4.0	8
24	Unexpected effects of thickness and strain on superconductivity and magnetism in optimally doped thin films. Physical Review B, 2018, 97, .	1.1	6
25	Nanoscaled LiMn ₂ O ₄ for Extended Cycling Stability in the 3 V Plateau. ACS Applied Materials & Interfaces, 2022, 14, 33438-33446.	4.0	6
26	Tailoring the Transport Properties of Mesoporous Doped Cerium Oxide for Energy Applications. Journal of Physical Chemistry C, 2021, 125, 16451-16463.	1.5	5
27	Control of dopant crystallinity in electrochemically treated cuprate thin films. Physical Review Materials, 2019, 3, .	0.9	5
28	Oxide molecular beam epitaxy of complex oxide heterointerfaces. , 2018, , 53-78.		4
29	Cation non-stoichiometry in Fe:SrTiO ₃ thin films and its effect on the electrical conductivity. Nanoscale Advances, 2021, 3, 6114-6127.	2.2	4
30	Visualizing local fast ionic conduction pathways in nanocrystalline lanthanum manganite by isotope exchange-atom probe tomography. Journal of Materials Chemistry A, 2022, 10, 2228-2234.	5.2	4
31	Ion Intercalation in Lanthanum Strontium Ferrite for Aqueous Electrochemical Energy Storage Devices. ACS Applied Materials & Interfaces, 2022, 14, 18486-18497.	4.0	4
32	WhatEELS. A python-based interactive software solution for ELNES analysis combining clustering and NLLS. Ultramicroscopy, 2022, 232, 113403.	0.8	3
33	Solid Oxide Cell Electrode Nanocomposites Fabricated by Inkjet Printing Infiltration of Ceria Scaffolds. Nanomaterials, 2021, 11, 3435.	1.9	3
34	Interstitial lithium doping in SrTiO ₃ . AIP Advances, 2021, 11, 075029.	0.6	2
35	Direct Observation of Asymmetric Sr Diffusion in Sr- ¹³⁷ Cs-Doped La ₂ CuO ₄ . Microscopy and Microanalysis, 2014, 20, 168-169.	0.2	1
36	Superconducting Interfaces: Octahedral Distortions at High-Temperature Superconducting La ₂ CuO ₄ Interfaces: Visualizing Jahn-Teller Effects (Adv. Mater. Interfaces) Tj ETQq0 0i0rgBT /Overlock 10		

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37	Probing Jahn-Teller Distortions at Superconducting La ₂ CuO ₄ Interfaces. <i>Microscopy and Microanalysis</i> , 2018, 24, 78-79.	0.2	1
38	Atomic-Scale Quantitative and Analytical STEM Investigation of Sr ²⁺ -Doped La ₂ CuO ₄ Multilayers. <i>Microscopy and Microanalysis</i> , 2015, 21, 2071-2072.	0.2	0
39	Visualizing Interface Effects in Two-dimensionally Doped La ₂ CuO ₄ and La ₂ CuO ₄ / La _{2-x} Sr _x NiO ₄ Superlattices. <i>Microscopy and Microanalysis</i> , 2016, 22, 268-269.	0.2	0
40	Influence of Substrate Temperature and Dopant Distribution at Two-Dimensionally Doped Superconducting La ₂ CuO ₄ Interfaces. <i>Microscopy and Microanalysis</i> , 2017, 23, 1570-1571.	0.2	0
41	Atomic-scale Identification of High-temperature Superconductivity at La ₂ CuO ₄ Interfaces. <i>Microscopy and Microanalysis</i> , 2020, 26, 738-739.	0.2	0
42	Atomic-scale Considerations on LaNiO ₃ -La ₂ CuO ₄ Heterostructures: Interface ²⁺ thermoelectricity Relationship. <i>Microscopy and Microanalysis</i> , 2020, 26, 2626-2627.	0.2	0
43	Thin Film Barrier Layers with Increased Performance and Reduced Long-Term Degradation in SOFCs. <i>ECS Transactions</i> , 2021, 103, 1177-1185.	0.3	0
44	Nanoscale tracking of oxygen diffusion pathways in oxide ion conductors. <i>Microscopy and Microanalysis</i> , 2021, 27, 180-181.	0.2	0