Federico Baiutti

List of Publications by Year
in descending order

44	491	687363 13	713466 21
papers	citations	h-index	g-index

50	50	50	592
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature superconductivity in space-charge regions of lanthanum cuprate induced by two-dimensional doping. Nature Communications, 2015, 6, 8586.	12.8	53
2	Nanostructured Materials and Interfaces for Advanced Ionic Electronic Conducting Oxides. Advanced Materials Interfaces, 2019, 6, 1900462.	3.7	39
3	A high-entropy manganite in an ordered nanocomposite for long-term application in solid oxide cells. Nature Communications, 2021, 12, 2660.	12.8	37
4	Towards precise defect control in layered oxide structures by using oxide molecular beam epitaxy. Beilstein Journal of Nanotechnology, 2014, 5, 596-602.	2.8	31
5	Infiltrated mesoporous oxygen electrodes for high temperature co-electrolysis of H₂O and CO₂ in solid oxide electrolysis cells. Journal of Materials Chemistry A, 2018, 6, 9699-9707.	10.3	29
6	Dopant size effects on novel functionalities: High-temperature interfacial superconductivity. Scientific Reports, 2017, 7, 453.	3.3	28
7	Engineering mass transport properties in oxide ionic and mixed ionic-electronic thin film ceramic conductors for energy applications. Journal of the European Ceramic Society, 2019, 39, 101-114.	5.7	24
8	Cationic Redistribution at Epitaxial Interfaces in Superconducting Two-Dimensionally Doped Lanthanum Cuprate Films. ACS Applied Materials & Interfaces, 2016, 8, 27368-27375.	8.0	19
9	Superconductivity drives magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î´</mml:mi></mml:math> -doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mn>2</mml:mn></mm Physical Review B, 2018, 97, .	3.2	18
10	Atomic-Scale Quantitative Analysis of Lattice Distortions at Interfaces of Two-Dimensionally Sr-Doped La₂CuO₄ Superlattices. ACS Applied Materials & Interfaces, 2016, 8, 6763-6769.	8.0	16
11	Octahedral Distortions at Highâ€Temperature Superconducting La₂CuO₄ Interfaces: Visualizing Jahnâ€“Teller Effects. Advanced Materials Interfaces, 2017, 4, 1700737.	3.7	15
12	Co-electrolysis of steam and carbon dioxide in large area solid oxide cells based on infiltrated mesoporous oxygen electrodes. Journal of Power Sources, 2020, 478, 228774.	7.8	15
13	Exploring point defects and trap states in undoped SrTiO3 single crystals. Journal of the European Ceramic Society, 2022, 42, 1510-1521.	5.7	14
14	Tailored nano-columnar La₂NiO₄ cathodes for improved electrode performance. Journal of Materials Chemistry A, 2022, 10, 2528-2540.	10.3	13
15	High-temperature superconductivity at the lanthanum cuprate/lanthanumâ€“strontium nickelate interface. Nanoscale, 2018, 10, 8712-8720.	5.6	12
16	High-Temperature Thermoelectricity in LaNiO₃â€“La₂CuO₄ Heterostructures. ACS Applied Materials & Interfaces, 2018, 10, 22786-22792.	8.0	12
17	Improved mesostructured oxygen electrodes for highly performing solid oxide cells for co-electrolysis of steam and carbon dioxide. Journal of Materials Chemistry A, 2019, 7, 27458-27468.	10.3	11
18	Direct Measurement of Oxygen Mass Transport at the Nanoscale. Advanced Materials, 2021, 33, e2105622.	21.0	11

#	Article	IF	Citations
19	SrTiO3 based high temperature solid oxide solar cells: Photovoltages, photocurrents and mechanistic insight. Solid State Ionics, 2021, 368, 115700.	2.7	10
20	Route to High-Performance Micro-solid Oxide Fuel Cells on Metallic Substrates. ACS Applied Materials & Interfaces, 2021, 13, 4117-4125.	8.0	9
21	Defect energetics in the SrTiO3-LaCrO3 system. Solid State Ionics, 2021, 361, 115570.	2.7	9
22	On the thermoelectric properties of Nb-doped SrTiO₃ epitaxial thin films. Physical Chemistry Chemical Physics, 2022, 24, 3741-3748.	2.8	9
23	Surface chemistry and porosity engineering through etching reveal ultrafast oxygen reduction kinetics below 400ÂÂ°C in B-site exposed (La,Sr)(Co,Fe)O3 thin-films. Journal of Power Sources, 2022, 523, 230983.	7.8	8
24	Unexpected effects of thickness and strain on superconductivity and magnetism in optimally doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>1.84</ thin films. Physical Review B, 2018, 97, .	3.2	6
25	Nanoscaled LiMn₂O₄ for Extended Cycling Stability in the 3 V Plateau. ACS Applied Materials & Interfaces, 2022, 14, 33438-33446.	8.0	6
26	Tailoring the Transport Properties of Mesoporous Doped Cerium Oxide for Energy Applications. Journal of Physical Chemistry C, 2021, 125, 16451-16463.	3.1	5
27	Control of dopant crystallinity in electrochemically treated cuprate thin films. Physical Review Materials, 2019, 3, .	2.4	5
28	Oxide molecular beam epitaxy of complex oxide heterointerfaces. , 2018, , 53-78.		4
29	Cation non-stoichiometry in Fe:SrTiO₃ thin films and its effect on the electrical conductivity. Nanoscale Advances, 2021, 3, 6114-6127.	4.6	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.	10.3	4
31	Ion Intercalation in Lanthanum Strontium Ferrite for Aqueous Electrochemical Energy Storage Devices. ACS Applied Materials & Interfaces, 2022, 14, 18486-18497.	8.0	4
32	WhatEELS. A python-based interactive software solution for ELNES analysis combining clustering and NLLS. Ultramicroscopy, 2022, 232, 113403.	1.9	3
33	Solid Oxide Cell Electrode Nanocomposites Fabricated by Inkjet Printing Infiltration of Ceria Scaffolds. Nanomaterials, 2021, 11, 3435.	4.1	3
34	Interstitial lithium doping in SrTiO₃. AIP Advances, 2021, 11, 075029.	1.3	2
35	Direct Observation of Asymmetric Sr Diffusion in Sr-Î´-Doped La2CuO4. Microscopy and Microanalysis, 2014, 20, 168-169.	0.4	1
36	Superconducting Interfaces: Octahedral Distortions at Highâ€Temperature Superconducting La₂CuO₄ Interfaces: Visualizing Jahnâ€“Teller Effects (Adv. Mater. Interfaces) Tj ETQq0 0 0 rgBT /Overlock 10	3.7	1

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37	Probing Jahn-Teller Distortions at Superconducting La2CuO4 Interfaces. Microscopy and Microanalysis, 2018, 24, 78-79.	0.4	1
38	Atomic-Scale Quantitative and Analytical STEM Investigation of Sr-Î´-Doped La2CuO4 Multilayers. Microscopy and Microanalysis, 2015, 21, 2071-2072.	0.4	0
39	Visualizing Interface Effects in Two-dimensionally Doped La2CuO4 and La2CuO4/ La2-xSrxNiO4 Superlattices. Microscopy and Microanalysis, 2016, 22, 268-269.	0.4	0
40	Influence of Substrate Temperature and Dopant Distribution at Two-Dimensionally Doped Superconducting La2CuO4 Interfaces. Microscopy and Microanalysis, 2017, 23, 1570-1571.	0.4	0
41	Atomic-scale Identification of High-temperature Superconductivity at La2CuO4 Interfaces. Microscopy and Microanalysis, 2020, 26, 738-739.	0.4	0
42	Atomic-scale Considerations on LaNiO3-La2CuO4 Heterostructures: Interfaceâ€"thermoelectricity Relationship. Microscopy and Microanalysis, 2020, 26, 2626-2627.	0.4	0
43	Thin Film Barrier Layers with Increased Performance and Reduced Long-Term Degradation in SOFCs. ECS Transactions, 2021, 103, 1177-1185.	0.5	0
44	Nanoscale tracking of oxygen diffusion pathways in oxide ion conductors. Microscopy and Microanalysis, 2021, 27, 180-181.	0.4	0