

Piero Mazzolini

List of Publications by Year in descending order

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all docs

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docs citations

27
times ranked

952
citing authors

#	ARTICLE	IF	CITATIONS
1	Ga ₂ O ₃ polymorphs: tailoring the epitaxial growth conditions. Journal of Materials Chemistry C, 2020, 8, 10975-10992.	2.7	84
2	Substrate-orientation dependence of $\hat{\Gamma}^2$ -Ga ₂ O ₃ (100), (010), (001), and (2 \hat{A} 01) homoepitaxy by indium-mediated metal-exchange catalyzed molecular beam epitaxy (MEXCAT-MBE). APL Materials, 2020, 8, .	2.2	80
3	Faceting and metal-exchange catalysis in (010) $\hat{\Gamma}^2$ -Ga ₂ O ₃ thin films homoepitaxially grown by plasma-assisted molecular beam epitaxy. APL Materials, 2019, 7, .	2.2	53
4	Tuning of Electrical and Optical Properties of Highly Conducting and Transparent Ta-Doped TiO ₂ Polycrystalline Films. Journal of Physical Chemistry C, 2015, 119, 6988-6997.	1.5	46
5	Vibrational-Electrical Properties Relationship in Donor-Doped TiO ₂ by Raman Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 18878-18886.	1.5	43
6	SnO/ $\hat{\Gamma}^2$ -Ga ₂ O ₃ vertical pn heterojunction diodes. Applied Physics Letters, 2020, 117, .	1.5	38
7	Influence of Polymorphism on the Electronic Structure of Ga ₂ O ₃ . Chemistry of Materials, 2020, 32, 8460-8470.	3.2	35
8	Hydrogen-treated hierarchical titanium oxide nanostructures for photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2017, 169, 19-27.	3.0	32
9	Non-Equilibrium Synthesis of Highly Active Nanostructured, Oxygen-Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	5.2	29
10	Towards smooth (010) $\hat{\Gamma}^2$ -Ga ₂ O ₃ films homoepitaxially grown by plasma assisted molecular beam epitaxy: the impact of substrate offcut and metal-to-oxygen flux ratio. Journal Physics D: Applied Physics, 2020, 53, 354003.	1.3	23
11	Efficient suboxide sources in oxide molecular beam epitaxy using mixed metal + oxide charges: The examples of SnO and Ga ₂ O. APL Materials, 2020, 8, .	2.2	21
12	Isotopic study of Raman active phonon modes in $\hat{\Gamma}^2$ -Ga ₂ O ₃ . Journal of Materials Chemistry C, 2021, 9, 2311-2320.	2.7	20
13	Controlling the Electrical Properties of Undoped and Ta-Doped TiO ₂ Polycrystalline Films via Ultra-Fast Annealing Treatments. Advanced Electronic Materials, 2016, 2, 1500316.	2.6	19
14	Revealing the Electronic Structure and Optical Properties of CuFeO ₂ as a p-Type Oxide Semiconductor. ACS Applied Electronic Materials, 2021, 3, 1834-1841.	2.0	18
15	Offcut-related step-flow and growth rate enhancement during (100) $\hat{\Gamma}^2$ -Ga ₂ O ₃ homoepitaxy by metal-exchange catalyzed molecular beam epitaxy (MEXCAT-MBE). Applied Physics Letters, 2020, 117, .	1.5	17
16	Electrochemical Properties of Transparent Conducting Films of Tantalum-Doped Titanium Dioxide. Electrochimica Acta, 2017, 232, 44-53.	2.6	16
17	Enhancing light harvesting by hierarchical functionally graded transparent conducting Al-doped ZnO nano- and mesoarchitectures. Solar Energy Materials and Solar Cells, 2014, 128, 248-253.	3.0	14
18	Hierarchical TiN Nanostructured Thin Film Electrode for Highly Stable PEM Fuel Cells. ACS Applied Energy Materials, 2019, 2, 1911-1922.	2.5	14

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19	Thermodynamic and Kinetic Effects on the Nucleation and Growth of In^{2+} - or In^{3+} -Ga ₂ O ₃ by Metal-Organic Vapor Phase Epitaxy. <i>Crystal Growth and Design</i> , 2021, 21, 6393-6401.	1.4	13
20	Tuning electrical properties of hierarchically assembled Al-doped ZnO nanoforests by room temperature Pulsed Laser Deposition. <i>Thin Solid Films</i> , 2015, 594, 12-17.	0.8	12
21	Plasma-assisted molecular beam epitaxy of SnO(001) films: Metastability, hole transport properties, Seebeck coefficient, and effective hole mass. <i>Physical Review Materials</i> , 2020, 4, .	0.9	10
22	Multi-layered hierarchical nanostructures for transparent monolithic dye-sensitized solar cell architectures. <i>Nanotechnology</i> , 2017, 28, 245603.	1.3	8
23	Comprehensive Raman study of orthorhombic In^{2+} -Ga ₂ O ₃ and the impact of rotational domains. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14175-14189.	2.7	7
24	Study of SnO_2 -Ga ₂ O ₃ <i>pn</i> diodes in planar geometry. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 042701.	0.9	6
25	Tuning the photoelectrochemical properties of hierarchical TiO ₂ nanostructures by control of pulsed laser deposition and annealing in reducing conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26639-26651.	3.8	5
26	Plasma-Assisted Molecular Beam Epitaxy 2. <i>Springer Series in Materials Science</i> , 2020, , 95-121.	0.4	4
27	Morphology-driven electrical and optical properties in graded hierarchical transparent conducting Al:ZnO. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1699, 13.	0.1	2