

Piero Mazzolini

List of Publications by Year in descending order

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docs citations

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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.	5.5	84
2	Substrate-orientation dependence of $\hat{\Gamma}^2$ -Ga ₂ O ₃ (100), (010), (001), and (2 $\hat{\Gamma}$ 01) homoepitaxy by indium-mediated metal-exchange catalyzed molecular beam epitaxy (MEXCAT-MBE). APL Materials, 2020, 8, .	5.1	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, .	5.1	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.	3.1	46
5	Vibrational–Electrical Properties Relationship in Donor-Doped TiO ₂ by Raman Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 18878-18886.	3.1	43
6	SnO/ $\hat{\Gamma}^2$ -Ga ₂ O ₃ vertical $\langle i \rangle_{pn} \langle /i \rangle$ heterojunction diodes. Applied Physics Letters, 2020, 117, .	3.3	38
7	Influence of Polymorphism on the Electronic Structure of Ga ₂ O ₃ . Chemistry of Materials, 2020, 32, 8460-8470.	6.7	35
8	Hydrogen-treated hierarchical titanium oxide nanostructures for photoelectrochemical water splitting. Solar Energy Materials and Solar Cells, 2017, 169, 19-27.	6.2	32
9	Non–Equilibrium Synthesis of Highly Active Nanostructured, Oxygen–Incorporated Amorphous Molybdenum Sulfide HER Electrocatalyst. Small, 2020, 16, e2004047.	10.0	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.	2.8	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, .	5.1	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.	5.5	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.	5.1	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.	4.3	18
15	Offcut-related step-flow and growth rate enhancement during (100) $\langle b \rangle \langle i \rangle_{\hat{\Gamma}^2} \langle /b \rangle$ -Ga ₂ O ₃ homoepitaxy by metal-exchange catalyzed molecular beam epitaxy (MEXCAT-MBE). Applied Physics Letters, 2020, 117, .	3.3	17
16	Electrochemical Properties of Transparent Conducting Films of Tantalum-Doped Titanium Dioxide. Electrochimica Acta, 2017, 232, 44-53.	5.2	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.	6.2	14
18	Hierarchical TiN Nanostructured Thin Film Electrode for Highly Stable PEM Fuel Cells. ACS Applied Energy Materials, 2019, 2, 1911-1922.	5.1	14

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19	Thermodynamic and Kinetic Effects on the Nucleation and Growth of In_2O_3 or $\text{In}_2\text{Ga}_2\text{O}_3$ by Metal-Organic Vapor Phase Epitaxy. <i>Crystal Growth and Design</i> , 2021, 21, 6393-6401.	3.0	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.	1.8	12
21	Plasma-assisted molecular beam epitaxy of $\text{SnO}(001)$ films: Metastability, hole transport properties, Seebeck coefficient, and effective hole mass. <i>Physical Review Materials</i> , 2020, 4, .	2.4	10
22	Multi-layered hierarchical nanostructures for transparent monolithic dye-sensitized solar cell architectures. <i>Nanotechnology</i> , 2017, 28, 245603.	2.6	8
23	Comprehensive Raman study of orthorhombic $\text{In}_2\text{Ga}_2\text{O}_3$ and the impact of rotational domains. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14175-14189.	5.5	7
24	Study of $\text{SnO}/\text{In}_2\text{Ga}_2\text{O}_3$ p-n diodes in planar geometry. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 042701.	2.1	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.	7.1	5
26	Plasma-Assisted Molecular Beam Epitaxy 2. <i>Springer Series in Materials Science</i> , 2020, , 95-121.	0.6	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