Mathieu FrÃ©gnaux

List of Publications by Year
in descending order

32 papers	311 citations	1039880 9 h-index	887953 17 g-index
32 all docs	32 docs citations	32 times ranked	659 citing authors

#	Article	IF	Citations
1	Ultra-clean high-mobility graphene on technologically relevant substrates. Nanoscale, 2022, 14, 2167-2176.	2.8	22
2	On the equilibrium electrostatic potential and lightâ€induced charge redistribution in halide perovskite structures. Progress in Photovoltaics: Research and Applications, 2022, 30, 994-1002.	4.4	2
3	Coupled time resolved and high frequency modulated photoluminescence probing surface passivation of highly doped n-type InP samples. Journal of Applied Physics, 2021, 129, .	1.1	3
4	XPS monitoring of SrVO3 thin films from demixing to air ageing: The asset of treatment in water. Applied Surface Science, 2021, 553, 149536.	3.1	15
5	Carrier gradients and the role of charge selective contacts in lateral heterojunction all back contact perovskite solar cells. Cell Reports Physical Science, 2021, 2, 100520.	2.8	12
6	Improving the Activity of Fe/C/N ORR Electrocatalyst Using Double Ammonia Promoted CO2 Laser Pyrolysis. Journal of Carbon Research, 2020, 6, 63.	1.4	0
7	Formation of a Singleâ€Crystal Aluminumâ€Based MOF Nanowire with Graphene Oxide Nanoscrolls as Structureâ€Directing Agents. Angewandte Chemie, 2020, 132, 10439-10444.	1.6	1
8	Transfer of Epitaxial SrTiO₃ Nanothick Layers Using Water-Soluble Sacrificial Perovskite Oxides. ACS Applied Materials & Interfaces, 2020, 12, 8466-8474.	4.0	22
9	Three dimensional resistance mapping of self-organized Sr3V2O8 nanorods on metallic perovskite SrVO3 matrix. Applied Surface Science, 2020, 510, 145522.	3.1	14
10	Highly Active, High Specific Surface Area Fe/C/N ORR Electrocatalyst from Liquid Precursors by Combination of CO2 Laser Pyrolysis and Single NH3 Thermal Post-Treatment. Journal of Carbon Research, 2019, 5, 26.	1.4	4
11	Ionic Bombardment to Tune the Electrochemical Properties of a Semiconductor. ECS Transactions, 2019, 89, 9-15.	0.3	2
12	Nanoscale Wet Chemical Engineering of III-V Quantum Dots for Emerging Solar Applications. ECS Transactions, 2019, 89, 37-46.	0.3	0
13	Band Alignment of n- and p- InP at Electrolyte and Ultra High Vacuum Intrefaces: Correlation between the Open Circuit Potential under Illumination and XPS Photopeak Energy Separations. ECS Transactions, 2019, 89, 1-8.	0.3	0
14	Surface Characterizations and Selective Etching of Srâ€Rich Segregation on Top of SrVO 3 Thinâ€Films Grown by Pulsed Laser Deposition. ChemNanoMat, 2019, 5, 674-681.	1.5	13
15	Cross-characterization methods to obtain an â€œabsoluteâ€•quantification of Cu(In,Ga)Se2 in-depth and at the surface. , 2019, , .		0
16	XPS study during a soft and progressive sputtering of a monolayer on indium phosphide by argon cluster bombardment. Surface and Interface Analysis, 2018, 50, 1163-1167.	0.8	2
17	XPS profiling study of Al<inf>2</inf>O<inf>3</inf> passivation layers for high efficiency n-PERT and PERC solar cells. , 2018, , .		0
18	Coupling GD-OES and XPS profiling to perform advanced physico-chemical characterizations of III-V layers for photovoltaic applications. , 2018, , .		1

#	Article	IF	Citations
19	Gallium-containing sulfide binary and ternary materials by atomic layer deposition: precursor reactivities and growth fine chemistries. Materials Today Chemistry, 2018, 10, 142-152.	1.7	6
20	Versatile perovskite solar cell encapsulation by low-temperature ALD-Al₂O₃with long-term stability improvement. Sustainable Energy and Fuels, 2018, 2, 2468-2479.	2.5	66
21	Synthesis and Characterization of Carbon/Nitrogen/Iron Based Nanoparticles by Laser Pyrolysis as Non-Noble Metal Electrocatalysts for Oxygen Reduction. Journal of Carbon Research, 2018, 4, 43.	1.4	5
22	Direct Writing on Copper Ion Doped Silica Films by Electrogeneration of Metallic Microstructures. Journal of Physical Chemistry C, 2017, 121, 1129-1139.	1.5	2
23	Study of Seed-Layer Stability on Copper Electrolytic Bath. ECS Transactions, 2017, 77, 133-142.	0.3	0
24	Effect of a Thin Film of Polypolyphosphazene on the pH Response of InP. ECS Transactions, 2017, 77, 145-152.	0.3	0
25	A novel 2-step ALD route to ultra-thin MoS₂films on SiO₂through a surface organometallic intermediate. Nanoscale, 2017, 9, 538-546.	2.8	55
26	Free-standing electronic character of monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm van der Waals epitaxy. Physical Review B, 2016, 94, .	1.1	9
27	Ion beam synthesis of embedded IIIâ€As nanocrystals in silicon substrate. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 55-59.	0.8	7
28	Influence of doping on the optical properties of silicon nanocrystals embedded in SiO2. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 80-83.	0.8	2
29	Size-controlled synthesis of ZnO quantum dots in microreactors. Nanotechnology, 2014, 25, 145606.	1.3	33
30	Fast-grown CdS quantum dots: Single-source precursor approach vs microwave route. Materials Chemistry and Physics, 2013, 142, 52-60.	2.0	3
31	Size and quality control of fast grown CdS quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1764-1767.	0.8	2
32	Physical and Chemical Analyses on Single-Source Precursor-Grown CdS Semiconductor Nanomaterials. Journal of Physical Chemistry C, 2010, 114, 17318-17323.	1.5	8