

Abderraouf Boucherif

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	In-situ Transmission Electron Microscopy Observation of Germanium Growth on Freestanding Graphene: Unfolding Mechanism of 3D Crystal Growth During Van der Waals Epitaxy. <i>Small</i> , 2022, 18, e2101890.	10.0	5
2	Monolithic integration of mesoporous germanium: A step toward high-performance on-chip anode. <i>Materials Today Communications</i> , 2021, 26, 101820.	1.9	4
3	CVD growth of high-quality graphene over Ge (100) by annihilation of thermal pits. <i>Carbon</i> , 2021, 174, 214-226.	10.3	7
4	Probing the coupling between the components in a graphene-mesoporous germanium nanocomposite using high-pressure Raman spectroscopy. <i>Nanoscale Advances</i> , 2021, 3, 2577-2584.	4.6	2
5	Shape control of cathodized germanium oxide nanoparticles. <i>Electrochemistry Communications</i> , 2021, 122, 106906.	4.7	6
6	Anisotropic mesoporous germanium nanostructures by fast bipolar electrochemical etching. <i>Electrochimica Acta</i> , 2021, 378, 137935.	5.2	15
7	Effect of voided germanium thin-films grown onto silicon substrate on dislocations evolution. , 2021, , .		0
8	Structural, optical and terahertz properties of graphene-mesoporous silicon nanocomposites. <i>Nanoscale Advances</i> , 2020, 2, 340-346.	4.6	8
9	Growth of Ge epilayers using iso-butylgermane (IBGe) and its memory effect in an III-V chemical beam epitaxy reactor. <i>Journal of Crystal Growth</i> , 2020, 547, 125807.	1.5	4
10	Integration of 3D nanographene into mesoporous germanium. <i>Nanoscale</i> , 2020, 12, 23984-23994.	5.6	6
11	Effect of sintering germanium epilayers on dislocation dynamics: From theory to experimental observation. <i>Acta Materialia</i> , 2020, 200, 608-618.	7.9	2
12	Cost-effective energy harvesting at ultra-high concentration with duplicated concentrated photovoltaic solar cells. <i>Energy Science and Engineering</i> , 2020, 8, 2760-2770.	4.0	8
13	Engineering dislocations and nanovoids for high-efficiency III-V photovoltaic cells on silicon. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2
14	Capturing the Effects of Free Surfaces on Threading Dislocation Density Reduction. <i>ECS Transactions</i> , 2020, 98, 527-532.	0.5	1
15	Uprooting defects to enable high-performance III-V optoelectronic devices on silicon. <i>Nature Communications</i> , 2019, 10, 4322.	12.8	44
16	Tamm phonon-polaritons: Localized states from phonon-light interactions. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	14
17	A porous Ge/Si interface layer for defect-free III-V multi-junction solar cells on silicon. , 2019, , .		5
18	Tunable conductivity in mesoporous germanium. <i>Nanotechnology</i> , 2018, 29, 215701.	2.6	17

#	ARTICLE	IF	CITATIONS
19	Extreme temperature stability of thermally insulating graphene-mesoporous-silicon nanocomposite. <i>Nanotechnology</i> , 2018, 29, 145701.	2.6	9
20	Metastable States in Pressurized Bulk and Mesoporous Germanium. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10929-10938.	3.1	6
21	III-V Multi-Junction Solar Cells on Si Substrates with a Voided Ge Interface Layer: A Modeling Study. , 2018, , .		2
22	Fast growth synthesis of mesoporous germanium films by high frequency bipolar electrochemical etching. <i>Electrochimica Acta</i> , 2017, 232, 422-430.	5.2	33
23	Grapheneâ€Mesoporous Si Nanocomposite as a Compliant Substrate for Heteroepitaxy. <i>Small</i> , 2017, 13, 1603269.	10.0	11
24	Novel multijunction solar cell design for low cost, high concentration systems. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 150-158.	8.1	16
25	Electrical and structural properties of AlGaNs alloys grown by chemical beam epitaxy. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 918-922.	1.5	3
26	Chemical Composition of Nanoporous Layer Formed by Electrochemical Etching of p-Type GaAs. <i>Nanoscale Research Letters</i> , 2016, 11, 446.	5.7	39
27	Near-infrared emission from mesoporous crystalline germanium. <i>AIP Advances</i> , 2014, 4, 107128.	1.3	6
28	Growth optimization and optical properties of AlGaNs alloys. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	7
29	Multijunction Solar Cell Designs Using Silicon Bottom Subcell and Porous Silicon Compliant Membrane. <i>IEEE Journal of Photovoltaics</i> , 2013, 3, 1125-1131.	2.5	25
30	Optimization of p-doping in AlGaAs grown by CBE using TMA for AlGaAs/GaAs tunnel junctions. <i>Journal of Crystal Growth</i> , 2013, 374, 1-4.	1.5	2
31	Control of mesoporous silicon initiation by cathodic passivation. <i>Electrochemistry Communications</i> , 2013, 36, 84-87.	4.7	7
32	Al-enhanced N incorporation in GaNs alloys grown by chemical beam epitaxy. <i>Journal of Crystal Growth</i> , 2013, 380, 256-260.	1.5	8