

Mohamed Benyoucef

List of Publications by Year in descending order

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100
papers

2,404
citations

218592

26
h-index

223716

46
g-index

104
all docs

104
docs citations

104
times ranked

2546
citing authors

#	ARTICLE	IF	CITATIONS
1	Antimicrobial activity and chemical composition of <i>Origanum glandulosum</i> Desf. essential oil and extract obtained by microwave extraction: Comparison with hydrodistillation. <i>Food Chemistry</i> , 2008, 106, 132-139.	4.2	166
2	Tuning the Exciton Binding Energies in Single Self-Assembled $\text{InGaAs}/\text{GaAs}$ Quantum Dots by Piezoelectric-Induced Biaxial Stress. <i>Physical Review Letters</i> , 2010, 104, 067405.	2.9	160
3	Self-Assembled Quantum Dot Molecules. <i>Advanced Materials</i> , 2009, 21, 2601-2618.	11.1	121
4	Telecom-wavelength (1.5 μm) single-photon emission from InP-based quantum dots. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	111
5	Fixed percentage of wavelet coefficients to be zeroed for ECG compression. <i>Electronics Letters</i> , 2003, 39, 830.	0.5	102
6	On-chip Si/SiO _x microtube refractometer. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	93
7	Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. <i>ACS Nano</i> , 2009, 3, 2901-2910.	7.3	92
8	Light emission and wave guiding of quantum dots in a tube. <i>Applied Physics Letters</i> , 2006, 88, 111120.	1.5	84
9	Enhancing the Optical Excitation Efficiency of a Single Self-Assembled Quantum Dot with a Plasmonic Nanoantenna. <i>Nano Letters</i> , 2010, 10, 4555-4558.	4.5	79
10	Site-controlled growth and luminescence of InAs quantum dots using <i>in situ</i> Ga-assisted deoxidation of patterned substrates. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	77
11	Ordered GaAs quantum dot arrays on GaAs(001): Single photon emission and fine structure splitting. <i>Applied Physics Letters</i> , 2006, 89, 233102.	1.5	71
12	Strongly coupled semiconductor microcavities: A route to couple artificial atoms over micrometric distances. <i>Physical Review B</i> , 2008, 77, .	1.1	65
13	Optical properties of rolled-up tubular microcavities from shaped nanomembranes. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	60
14	Optical Properties of a Wrinkled Nanomembrane with Embedded Quantum Well. <i>Nano Letters</i> , 2007, 7, 1676-1679.	4.5	54
15	Quality-factor enhancement of supermodes in coupled microdisks. <i>Optics Letters</i> , 2011, 36, 1317.	1.7	51
16	Epitaxial quantum dots in stretchable optical microcavities. <i>Optics Express</i> , 2009, 17, 22452.	1.7	41
17	Raman mapping of epitaxial lateral overgrown GaN: Stress at the coalescence boundary. <i>Journal of Applied Physics</i> , 2001, 90, 3656-3658.	1.1	40
18	Telecom wavelength single quantum dots with very small excitonic fine-structure splitting. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	40

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19	Correlated photon-pair emission from a charged single quantum dot. <i>Physical Review B</i> , 2005, 71, .	1.1	38
20	Radiative emission dynamics of quantum dots in a single cavity micropillar. <i>Physical Review B</i> , 2006, 74, .	1.1	37
21	Controlling quantum dot emission by integration of semiconductor nanomembranes onto piezoelectric actuators. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 687-696.	0.7	36
22	High-purity triggered single-photon emission from symmetric single InAs/InP quantum dots around the telecom C-band window. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900082.	1.8	35
23	Bidirectional wavelength tuning of individual semiconductor quantum dots in a flexible rolled-up microtube. <i>Physical Review B</i> , 2008, 78, .	1.1	31
24	Correlated photon pairs from single (In,Ga)As/GaAs quantum dots in pillar microcavities. <i>Journal of Applied Physics</i> , 2005, 97, 023101.	1.1	30
25	Raman scattering and photoluminescence studies on Si/SiO ₂ superlattices. <i>Journal of Applied Physics</i> , 2001, 89, 7903-7907.	1.1	27
26	Raman mapping, photoluminescence investigations, and finite element analysis of epitaxial lateral overgrown GaN on silicon substrates. <i>Applied Physics Letters</i> , 2002, 80, 2275-2277.	1.5	27
27	Large anisotropy of electron and hole g-factors in infrared-emitting InAs/InAlGaAs self-assembled quantum dots. <i>Physical Review B</i> , 2016, 93, .	1.1	27
28	Telecom wavelength emitting single quantum dots coupled to InP-based photonic crystal microcavities. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	26
29	Strain states in a quantum well embedded into a rolled-up microtube: X-ray and photoluminescence studies. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	25
30	Nano-Fabrication of GaN Pillars Using Focused Ion Beam Etching. <i>Physica Status Solidi A</i> , 1999, 176, 355-358.	1.7	24
31	Room temperature deformation mechanisms in ultrafine-grained materials processed by hot isostatic pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 462, 100-105.	2.6	24
32	Low-density InP-based quantum dots emitting around the 1.5- μ m telecom wavelength range. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	23
33	Electron and hole g-factors in InAs/InAlGaAs self-assembled quantum dots emitting at telecom wavelengths. <i>Physical Review B</i> , 2015, 92, .	1.1	23
34	Enhanced correlated photon pair emission from a pillar microcavity. <i>New Journal of Physics</i> , 2004, 6, 91-91.	1.2	21
35	InP-based single-photon sources operating at telecom C-band with increased extraction efficiency. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	21
36	Design and performance analysis of deep-etch air/nitride distributed Bragg reflector gratings for AlInGaN laser diodes. <i>Applied Physics Letters</i> , 2001, 79, 4076-4078.	1.5	20

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37	Wavelength Tunable Triggered Single-Photon Source from a Single CdTe Quantum Dot on Silicon Substrate. <i>Nano Letters</i> , 2009, 9, 304-307.	4.5	19
38	Antimicrobial Activity and Chemical Composition of <i>Saccocalyx satureioides</i> Coss. et Dur. Essential Oil and Extract Obtained by Microwave Extraction. Comparison with Hydrodistillation. <i>Journal of Essential Oil Research</i> , 2008, 20, 174-178.	1.3	18
39	Finite element analysis of epitaxial lateral overgrown GaN: Voids at the coalescence boundary. <i>Applied Physics Letters</i> , 2001, 79, 4127-4129.	1.5	16
40	Temperature dependent optical properties of single, hierarchically self-assembled GaAs/AlGaAs quantum dots. <i>Nanoscale Research Letters</i> , 2006, 1, 172-176.	3.1	16
41	Interface structure and strain state of InAs nano-clusters embedded in silicon. <i>Acta Materialia</i> , 2015, 90, 133-139.	3.8	16
42	Interplay of morphology, composition, and optical properties of InP-based quantum dots emitting at the $1.55 \mu\text{m}$ telecom wavelength. <i>Physical Review B</i> , 2017, 96, .	1.1	15
43	Free-standing GaN grown on epitaxial lateral overgrown GaN substrates. <i>Journal of Crystal Growth</i> , 2003, 255, 277-281.	0.7	14
44	Growth of InAs quantum dots and dashes on silicon substrates: Formation and characterization. <i>Journal of Crystal Growth</i> , 2011, 323, 422-425.	0.7	14
45	A conceptual architecture for a combined negotiation support system. , 0, , .		13
46	Microphotoluminescence spectroscopy of single CdTe/ZnTe quantum dots grown on Si(001) substrates. <i>Nanotechnology</i> , 2009, 20, 075705.	1.3	13
47	Microcavity enhanced silicon light emitting pn-diode. <i>Applied Physics Letters</i> , 2010, 96, 151113.	1.5	13
48	Direct growth of InAs quantum dots on silicon substrates: structural and optical properties. <i>Semiconductor Science and Technology</i> , 2013, 28, 094004.	1.0	13
49	An infrastructure for rule-driven negotiating software agents. , 0, , .		12
50	Pre-patterned silicon substrates for the growth of InAs nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2402-2410.	0.8	12
51	Functionalised phosphonate ester supported lanthanide (Ln = La, Nd, Dy, Er) complexes. <i>Dalton Transactions</i> , 2020, 49, 16683-16692.	1.6	12
52	Fabrication and characterization of microdisk resonators with In(Ga)As/GaAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 3641-3645.	0.8	11
53	Toward quantum interference of photons from independent quantum dots. <i>Applied Physics Letters</i> , 2009, 95, 261908.	1.5	11
54	Single-photon emission from single InGaAs/GaAs quantum dots grown by droplet epitaxy at high substrate temperature. <i>Nanoscale Research Letters</i> , 2012, 7, 493.	3.1	11

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55	Addressing dynamism in e-negotiations by workflow management systems. , 0, , .		10
56	Raman mapping investigations and finite element analysis of double epitaxial lateral overgrown GaN on sapphire substrates. Applied Physics Letters, 2002, 81, 2370-2372.	1.5	10
57	Nanostructured hybrid material based on highly mismatched III-V nanocrystals fully embedded in silicon. Physica Status Solidi (A) Applications and Materials Science, Optical and Electronic Properties of Symmetric	0.8	10
58	stretchy="false">(</mml:mo><mml:mrow><mml:mrow><mml:mi>ln</mml:mi><mml:mi>As</mml:mi></mml:mrow></mml:mo><mml:mo></mml:mo><mml:mspace>1.5Tj ETQq00 0 rgBT	1.5	10
59	Mode properties of telecom wavelength InP-based high-(Q/V) L4/3 photonic crystal cavities. Nanotechnology, 2020, 31, 315703.	1.3	9
60	Magneto-Optical Characterization of Trions in Symmetric InP-Based Quantum Dots for Quantum Communication Applications. Materials, 2021, 14, 942.	1.3	9
61	Azido-Functionalized Aromatic Phosphonate Esters in ^RPOSS-Cage-Supported Lanthanide Ion (Ln = La, Nd, Dy, Er) Coordination. Inorganic Chemistry, 2021, 60, 5297-5309.	1.9	9
62	Bright light emissions with narrow spectral linewidths from single InAs/GaAs quantum dots directly grown on silicon substrates. Applied Physics Letters, 2013, 102, .	1.5	6
63	(Invited) III-V / Si Integration for Photonics. ECS Transactions, 2016, 72, 171-179.	0.3	6
64	The Growth of Gallium Nitride Films Produced by Reactive Sputtering at Low Temperature. Physica Status Solidi A, 1999, 176, 319-322.	1.7	5
65	Quality factor enhancement of optical modes mediated by strong coupling in micron size semiconductor disks. Physica Status Solidi (B): Basic Research, 2012, 249, 925-928.	0.7	5
66	Site-controlled growth of GaAs nanoislands on pre-patterned silicon substrates. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 443-448.	0.8	5
67	Analysis of dislocation networks in crept single crystal nickel-base superalloy. Journal of Materials Science, 2018, 53, 2892-2900.	1.7	5
68	Stress at the Coalescence Boundary of Epitaxial Lateral Overgrown GaN. Physica Status Solidi A, 2001, 188, 747-750.	1.7	4
69	Raman scattering, photoluminescence, and X-ray diffraction studies of GaN layers grown on misoriented sapphire substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 93, 15-18.	1.7	4
70	Optical fine structure of single ordered GaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1909-1912.	1.3	4
71	Nanostructuring of silicon substrates for the site-controlled growth of GaAs/In _{0.15} Ga _{0.85} As/GaAs nanostructures. Microelectronic Engineering, 2012, 97, 59-63.	1.1	4
72	Coherent photocurrent spectroscopy of single InP-based quantum dots in the telecom band at 1.5 μm. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	4

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73	Optical Quality of InAs/InP Quantum Dots on Distributed Bragg Reflector Emitting at 3rd Telecom Window Grown by Molecular Beam Epitaxy. <i>Materials</i> , 2021, 14, 6270.	1.3	4
74	III-V integration on Si for photonics. , 2016, , .		3
75	Electron and hole spin relaxation in InP-based self-assembled quantum dots emitting at telecom wavelengths. <i>Physical Review B</i> , 2018, 98, .	1.1	3
76	Photonic Quantum Technologies. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000007.	1.8	3
77	Spin memory effect in charged single telecom quantum dots. <i>Optics Express</i> , 2021, 29, 34024.	1.7	3
78	III-V on Silicon Nanocomposites. <i>Semiconductors and Semimetals</i> , 2018, , 27-42.	0.4	2
79	Telecom wavelength InP-based L3 photonic crystal cavities: Properties of the cavity ground mode. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
80	Focused Ion Beam Etching of Nanometer-Size GaN/AlGaIn Device Structures and their Optical Characterization by Micro-Photoluminescence/Raman Mapping. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 2000, 5, 950-956.	1.0	2
81	A Wideband BSOR-GSIC Multiuser Detector for Long-Code CDMA Systems. , 2007, , .		1
82	Quantum dots in a tube as light emitters, waveguides and ring resonators. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	1
83	A Chip-Level BSOR-Based Linear GSIC Multiuser Detector for Long-Code CDMA Systems. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2008, 2007, .	1.5	1
84	Antimicrobial Activity and Chemical Composition of <i>Saccocalyx saturoioides</i> Coss. et Dur. Essential Oil and Extract Obtained by Microwave Extraction. Comparison with Hydrodistillation. <i>Journal of Essential Oil Research</i> , 2008, 20, 287-287.	1.3	1
85	Quantum Dots: Self-Assembled Quantum Dot Molecules (<i>Adv. Mater.</i> 25(26/2009). <i>Advanced Materials</i> , 2009, 21, .	11.1	1
86	A reduced complexity chip-level SOR-SIC multiuser detector for long-code CDMA systems. , 2010, , .		1
87	Nano-Fabrication of GaN Pillars Using Focused Ion Beam Etching. , 1999, 176, 355.		1
88	Focused Ion Beam Etching of Nanometer-Size GaN/AlGaIn Device Structures and their Optical Characterization by Micro-Photoluminescence/Raman Mapping. <i>Materials Research Society Symposia Proceedings</i> , 1999, 595, 1.	0.1	0
89	Design and fabrication of air/semiconductor Bragg gratings for short wavelength nitride-based lasers. , 2001, , .		0
90	Raman Mapping and Finite Element Analysis of Epitaxial Lateral Overgrown GaN on Sapphire Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2002, 743, L3.12.1.	0.1	0

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91	Single-Photon And Photon Pair Emission From Individual (In,Ga)As Quantum Dots. AIP Conference Proceedings, 2005, , .	0.3	0
92	Microscopic theory of photoluminescence from semiconductor quantum dots in microcavities. , 0, , .		0
93	Optical properties of semiconductor quantum dots and pillar microcavities. AIP Conference Proceedings, 2005, , .	0.3	0
94	In situ Tuning of Optical Modes in Single Semiconductor Microcavities by Laser Heating. , 2007, , .		0
95	Comparable Homogeneous and Inhomogeneous Quantum Dot Luminescence Linewidths at Room Temperature. AIP Conference Proceedings, 2007, , .	0.3	0
96	Numerical investigation of optical response from rolled-up microtube resonator and its application. , 2008, , .		0
97	Three-dimensional photonic components based on optically active group IV membranes. , 2009, , .		0
98	Enhancing the photoluminescence properties of single epitaxial gaas quantum dots using optical antennas. , 2011, , .		0
99	Telecom Wavelength Nanophotonic Elements for Quantum Communication. , 2018, , .		0
100	Optical modes of semiconductor micropillars: a theory-experiment comparison. , 2004, , .		0