

# 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  | Magneto-Optical Characterization of Trions in Symmetric InP-Based Quantum Dots for Quantum Communication Applications. <i>Materials</i> , 2021, 14, 942.   | 1.3 | 9         |
| 2  | Azido-Functionalized Aromatic Phosphonate Esters in $\text{R}^{\text{POSS}}$ -Cage-Supported Lanthanide Ion ( $\text{Ln} = \text{La}, \text{Nd}, \text{Dy}, \text{Er}$ ) Coordination. <i>Inorganic Chemistry</i> , 2021, 60, 5297-5309. | 1.9 | 9         |
| 3  | InP-based single-photon sources operating at telecom C-band with increased extraction efficiency. <i>Applied Physics Letters</i> , 2021, 118, .  | 1.5 | 21        |
| 4  | Spin memory effect in charged single telecom quantum dots. <i>Optics Express</i> , 2021, 29, 34024.  | 1.7 | 3         |
| 5  | 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         |
| 6  | 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        |
| 7  | Functionalised phosphonate ester supported lanthanide ( $\text{Ln} = \text{La}, \text{Nd}, \text{Dy}, \text{Er}$ ) complexes. <i>Dalton Transactions</i> , 2020, 49, 16683-16692.  | 1.6 | 12        |
| 8  | Telecom wavelength InP-based L3 photonic crystal cavities: Properties of the cavity ground mode. <i>AIP Conference Proceedings</i> , 2020, .   | 0.3 | 2         |
| 9  | Analysis of the Properties of Symmetric $\text{InAs}/\text{InP}$ Quantum Dots. <i>Journal of Applied Physics</i> , 2020, 123, 045301.  | 1.5 | 1078      |
| 10 | Mode properties of telecom wavelength InP-based high-(Q/V) L4/3 photonic crystal cavities. <i>Nanotechnology</i> , 2020, 31, 315703.   | 1.3 | 9         |
| 11 | Photonic Quantum Technologies. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000007.  | 1.8 | 3         |
| 12 | Telecom wavelength single quantum dots with very small excitonic fine-structure splitting. <i>Applied Physics Letters</i> , 2018, 112, .   | 1.5 | 40        |
| 13 | Analysis of dislocation networks in crept single crystal nickel-base superalloy. <i>Journal of Materials Science</i> , 2018, 53, 2892-2900.  | 1.7 | 5         |
| 14 | III-V on Silicon Nanocomposites. <i>Semiconductors and Semimetals</i> , 2018, , 27-42.   | 0.4 | 2         |
| 15 | 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         |
| 16 | Telecom Wavelength Nanophotonic Elements for Quantum Communication. , 2018, , .  |     | 0         |
| 17 | Telecom wavelength emitting single quantum dots coupled to InP-based photonic crystal microcavities. <i>Applied Physics Letters</i> , 2017, 110, .   | 1.5 | 26        |
| 18 | Interplay of morphology, composition, and optical properties of InP-based quantum dots emitting at the telecom wavelength. <i>Physical Review B</i> , 2017, 96, .  | 1.1 | 15        |

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|----|---|-----|-----------|
| 19 | III-V integration on Si for photonics. , 2016, , .  |     | 3         |
| 20 | Large anisotropy of electron and hole $g$ factors in infrared-emitting InAs/InAlGaAs self-assembled quantum dots. Physical Review B, 2016, 93, .  | 1.1 | 27        |
| 21 | (Invited) III-V / Si Integration for Photonics. ECS Transactions, 2016, 72, 171-179.  | 0.3 | 6         |
| 22 | Coherent photocurrent spectroscopy of single InP-based quantum dots in the telecom band at 1.5 $\mu\text{m}$ . Applied Physics B: Lasers and Optics, 2016, 122, 1.                        | 1.1 | 4         |
| 23 | Electron and hole $g$ factors in InAs/InAlGaAs self-assembled quantum dots emitting at telecom wavelengths. Physical Review B, 2015, 92, .  | 1.1 | 23        |
| 24 | 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         |
| 25 | Interface structure and strain state of InAs nano-clusters embedded in silicon. Acta Materialia, 2015, 90, 133-139.   | 3.8 | 16        |
| 26 | Low-density InP-based quantum dots emitting around the 1.5 $\mu\text{m}$ telecom wavelength range. Applied Physics Letters, 2014, 104, .  | 1.5 | 23        |
| 27 | Nanostructured hybrid material based on highly mismatched III-V nanocrystals fully embedded in silicon. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 817-822. | 0.8 | 10        |
| 28 | 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         |
| 29 | Telecom-wavelength (1.5 $\mu\text{m}$ ) single-photon emission from InP-based quantum dots. Applied Physics Letters, 2013, 103, .   | 1.5 | 111       |
| 30 | Direct growth of III-V quantum dots on silicon substrates: structural and optical properties. Semiconductor Science and Technology, 2013, 28, 094004.                                     | 1.0 | 13        |
| 31 | Pre-patterned silicon substrates for the growth of III-V nanostructures. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2402-2410.                              | 0.8 | 12        |
| 32 | Nanostructuring of silicon substrates for the site-controlled growth of GaAs/In <sub>0.15</sub> Ga <sub>0.85</sub> As/GaAs nanostructures. Microelectronic Engineering, 2012, 97, 59-63.  | 1.1 | 4         |
| 33 | Single-photon emission from single InGaAs/GaAs quantum dots grown by droplet epitaxy at high substrate temperature. Nanoscale Research Letters, 2012, 7, 493.                             | 3.1 | 11        |
| 34 | 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         |
| 35 | Controlling quantum dot emission by integration of semiconductor nanomembranes onto piezoelectric actuators. Physica Status Solidi (B): Basic Research, 2012, 249, 687-696.               | 0.7 | 36        |
| 36 | Quality-factor enhancement of supermodes in coupled microdisks. Optics Letters, 2011, 36, 1317.   | 1.7 | 51        |

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|----|--|------|-----------|
| 37 | Growth of InAs quantum dots and dashes on silicon substrates: Formation and characterization. Journal of Crystal Growth, 2011, 323, 422-425.   | 0.7  | 14        |
| 38 | Enhancing the photoluminescence properties of single epitaxial GaAs quantum dots using optical antennas. , 2011, , .   |      | 0         |
| 39 | Strain states in a quantum well embedded into a rolled-up microtube: X-ray and photoluminescence studies. Applied Physics Letters, 2010, 96, .   | 1.5  | 25        |
| 40 | Microcavity enhanced silicon light emitting pn-diode. Applied Physics Letters, 2010, 96, 151113.   | 1.5  | 13        |
| 41 | Tuning the Exciton Binding Energies in Single Self-Assembled $\text{InGaAs}/\text{GaAs}$ Quantum Dots by Piezoelectric-Induced Biaxial Stress. Physical Review Letters. 2010. 104. 067405.                       | 2.9  | 160       |
| 42 | Enhancing the Optical Excitation Efficiency of a Single Self-Assembled Quantum Dot with a Plasmonic Nanoantenna. Nano Letters, 2010, 10, 4555-4558.  | 4.5  | 79        |
| 43 | A reduced complexity chip-level SOR-SIC multiuser detector for long-code CDMA systems. , 2010, , .   |      | 1         |
| 44 | Toward quantum interference of photons from independent quantum dots. Applied Physics Letters, 2009, 95, 261908.   | 1.5  | 11        |
| 45 | Three-dimensional photonic components based on optically active group IV membranes. , 2009, , .  |      | 0         |
| 46 | Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. ACS Nano, 2009, 3, 2901-2910.  | 7.3  | 92        |
| 47 | Microphotoluminescence spectroscopy of single CdTe/ZnTe quantum dots grown on Si(001) substrates. Nanotechnology, 2009, 20, 075705.  | 1.3  | 13        |
| 48 | Self-Assembled Quantum Dot Molecules. Advanced Materials, 2009, 21, 2601-2618.   | 11.1 | 121       |
| 49 | Quantum Dots: Self-Assembled Quantum Dot Molecules (Adv. Mater. 25(26/2009). Advanced Materials, 2009, 21, .   | 11.1 | 1         |
| 50 | Optical properties of rolled-up tubular microcavities from shaped nanomembranes. Applied Physics Letters, 2009, 94, .  | 1.5  | 60        |
| 51 | Epitaxial quantum dots in stretchable optical microcavities. Optics Express, 2009, 17, 22452.  | 1.7  | 41        |
| 52 | Wavelength Tunable Triggered Single-Photon Source from a Single CdTe Quantum Dot on Silicon Substrate. Nano Letters, 2009, 9, 304-307.   | 4.5  | 19        |
| 53 | Optical fine structure of single ordered GaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1909-1912.  | 1.3  | 4         |
| 54 | Antimicrobial activity and chemical composition of Origanum glandulosum Desf. essential oil and extract obtained by microwave extraction: Comparison with hydrodistillation. Food Chemistry, 2008, 106, 132-139. | 4.2  | 166       |

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|----|--|-----|-----------|
| 55 | Site-controlled growth and luminescence of InAs quantum dots using <i>in situ</i> Ga-assisted deoxidation of patterned substrates. Applied Physics Letters, 2008, 93, .  | 1.5 | 77        |
| 56 | Numerical investigation of optical response from rolled-up microtube resonator and its application. , 2008, , .  |     | 0         |
| 57 | A Chip-Level BSOR-Based Linear GSIC Multiuser Detector for Long-Code CDMA Systems. Eurasip Journal on Wireless Communications and Networking, 2008, 2007, .  | 1.5 | 1         |
| 58 | Antimicrobial Activity and Chemical Composition of <i>Saccocalyx satureioides</i> Coss. et Dur. Essential Oil and Extract Obtained by Microwave Extraction. Comparison with Hydrodistillation. Journal of Essential Oil Research, 2008, 20, 287-287. | 1.3 | 1         |
| 59 | Antimicrobial Activity and Chemical Composition of <i>Saccocalyx satureioides</i> Coss. et Dur. Essential Oil and Extract Obtained by Microwave Extraction. Comparison with Hydrodistillation. Journal of Essential Oil Research, 2008, 20, 174-178. | 1.3 | 18        |
| 60 | Bidirectional wavelength tuning of individual semiconductor quantum dots in a flexible rolled-up microtube. Physical Review B, 2008, 78, .   | 1.1 | 31        |
| 61 | On-chip Si/SiO <sub>x</sub> microtube refractometer. Applied Physics Letters, 2008, 93, .  | 1.5 | 93        |
| 62 | Strongly coupled semiconductor microcavities: A route to couple artificial atoms over micrometric distances. Physical Review B, 2008, 77, .  | 1.1 | 65        |
| 63 | In situ Tuning of Optical Modes in Single Semiconductor Microcavities by Laser Heating. , 2007, , .  |     | 0         |
| 64 | Comparable Homogeneous and Inhomogeneous Quantum Dot Luminescence Linewidths at Room Temperature. AIP Conference Proceedings, 2007, , .  | 0.3 | 0         |
| 65 | A Wideband BSOR-GSIC Multiuser Detector for Long-Code CDMA Systems. , 2007, , .  |     | 1         |
| 66 | Optical Properties of a Wrinkled Nanomembrane with Embedded Quantum Well. Nano Letters, 2007, 7, 1676-1679.  | 4.5 | 54        |
| 67 | Quantum dots in a tube as light emitters, waveguides and ring resonators. AIP Conference Proceedings, 2007, , .  | 0.3 | 1         |
| 68 | Room temperature deformation mechanisms in ultrafine-grained materials processed by hot isostatic pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 100-105.                  | 2.6 | 24        |
| 69 | Radiative emission dynamics of quantum dots in a single cavity micropillar. Physical Review B, 2006, 74, .   | 1.1 | 37        |
| 70 | Fabrication and characterization of microdisk resonators with In(Ga)As/GaAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3641-3645.  | 0.8 | 11        |
| 71 | Temperature dependent optical properties of single, hierarchically self-assembled GaAs/AlGaAs quantum dots. Nanoscale Research Letters, 2006, 1, 172-176.  | 3.1 | 16        |
| 72 | Light emission and wave guiding of quantum dots in a tube. Applied Physics Letters, 2006, 88, 111120.  | 1.5 | 84        |

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|----|---|-----|-----------|
| 73 | Ordered GaAs quantum dot arrays on GaAs(001): Single photon emission and fine structure splitting. Applied Physics Letters, 2006, 89, 233102.   | 1.5 | 71        |
| 74 | Single-Photon And Photon Pair Emission From Individual (In,Ga)As Quantum Dots. AIP Conference Proceedings, 2005, , .  | 0.3 | 0         |
| 75 | Correlated photon-pair emission from a charged single quantum dot. Physical Review B, 2005, 71, .   | 1.1 | 38        |
| 76 | Correlated photon pairs from single (In,Ga)As GaAs quantum dots in pillar microcavities. Journal of Applied Physics, 2005, 97, 023101.  | 1.1 | 30        |
| 77 | Optical properties of semiconductor quantum dots and pillar microcavities. AIP Conference Proceedings, 2005, , .  | 0.3 | 0         |
| 78 | Enhanced correlated photon pair emission from a pillar microcavity. New Journal of Physics, 2004, 6, 91-91.   | 1.2 | 21        |
| 79 | Optical modes of semiconductor micropillars: a theory-experiment comparison. , 2004, , .  |     | 0         |
| 80 | Free-standing GaN grown on epitaxial lateral overgrown GaN substrates. Journal of Crystal Growth, 2003, 255, 277-281.   | 0.7 | 14        |
| 81 | Fixed percentage of wavelet coefficients to be zeroed for ECG compression. Electronics Letters, 2003, 39, 830.  | 0.5 | 102       |
| 82 | Raman mapping, photoluminescence investigations, and finite element analysis of epitaxial lateral overgrown GaN on silicon substrates. Applied Physics Letters, 2002, 80, 2275-2277.  | 1.5 | 27        |
| 83 | Raman Mapping and Finite Element Analysis of Epitaxial Lateral Overgrown GaN on Sapphire Substrates. Materials Research Society Symposia Proceedings, 2002, 743, L3.12.1.   | 0.1 | 0         |
| 84 | 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        |
| 85 | 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         |
| 86 | Design and performance analysis of deep-etch air/nitride distributed Bragg reflector gratings for AlInGaN laser diodes. Applied Physics Letters, 2001, 79, 4076-4078.   | 1.5 | 20        |
| 87 | Raman scattering and photoluminescence studies on Si/SiO <sub>2</sub> superlattices. Journal of Applied Physics, 2001, 89, 7903-7907.   | 1.1 | 27        |
| 88 | Design and fabrication of air/semiconductor Bragg gratings for short wavelength nitride-based lasers. , 2001, , .   |     | 0         |
| 89 | Stress at the Coalescence Boundary of Epitaxial Lateral Overgrown GaN. Physica Status Solidi A, 2001, 188, 747-750.   | 1.7 | 4         |
| 90 | Finite element analysis of epitaxial lateral overgrown GaN: Voids at the coalescence boundary. Applied Physics Letters, 2001, 79, 4127-4129.  | 1.5 | 16        |

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|-----|---|-----|-----------|
| 91  | Raman mapping of epitaxial lateral overgrown GaN: Stress at the coalescence boundary. Journal of Applied Physics, 2001, 90, 3656-3658.  | 1.1 | 40        |
| 92  | Focused Ion Beam Etching of Nanometer-Size GaN/AlGaN Device Structures and their Optical Characterization by Micro-Photoluminescence/Raman Mapping. MRS Internet Journal of Nitride Semiconductor Research, 2000, 5, 950-956. | 1.0 | 2         |
| 93  | The Growth of Gallium Nitride Films Produced by Reactive Sputtering at Low Temperature. Physica Status Solidi A, 1999, 176, 319-322.  | 1.7 | 5         |
| 94  | Nano-Fabrication of GaN Pillars Using Focused Ion Beam Etching. Physica Status Solidi A, 1999, 176, 355-358.  | 1.7 | 24        |
| 95  | Focused Ion Beam Etching of Nanometer-Size GaN/AlGaN Device Structures and their Optical Characterization by Micro-Photoluminescence/Raman Mapping. Materials Research Society Symposia Proceedings, 1999, 595, 1.            | 0.1 | 0         |
| 96  | Nano-Fabrication of GaN Pillars Using Focused Ion Beam Etching. , 1999, 176, 355.   |     | 1         |
| 97  | A conceptual architecture for a combined negotiation support system. , 0, , .   |     | 13        |
| 98  | An infrastructure for rule-driven negotiating software agents. , 0, , .   |     | 12        |
| 99  | Addressing dynamism in e-negotiations by workflow management systems. , 0, , .  |     | 10        |
| 100 | Microscopic theory of photoluminescence from semiconductor quantum dots in microcavities. , 0, , .  |     | 0         |