

Tarek Hidouri

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Combined impact of B ₂ H ₆ flow and growth temperature on morphological, structural, optical, and electrical properties of MOCVD-grown B(In)GaAs heterostructures designed for optoelectronics. Applied Surface Science, 2022, 577, 151884.	6.1	4
2	Performance Analysis of III-V and IV Semiconductors Based Double Gate Hetero Material Negative Capacitance TFET. Silicon, 2022, 14, 8529-8541.	3.3	5
3	Tailoring the electronic, optical and mechanical properties of KMgH ₃ and RbCaH ₃ perovskite hydrides without and with Samarium. Journal of Solid State Chemistry, 2022, 309, 122952.	2.9	4
4	Ge/GaAs Based Negative Capacitance Tunnel FET Biosensor: Proposal and Sensitivity Analysis. Silicon, 2022, 14, 10475-10483.	3.3	7
5	Point defect localization and cathodoluminescence emission in undoped μ -Ga ₂ O ₃ . Journal Physics D: Applied Physics, 2022, 55, 295103.	2.8	3
6	Growth temperature impact on MOVPE-grown BInGaAs/GaAs QWs designed for optoelectronic applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 20115-20129.	2.2	0
7	Tuning spontaneous emission in BInGaAs/GaAs QWs by varying the growth temperature: above 1.2 μ m emission and solar cells application. Optical and Quantum Electronics, 2021, 53, 1.	3.3	3
8	Transfer mechanisms and geometry effect on the dynamics of excitons in boron-containing GaAs alloys: Time-resolved photoluminescence investigation. Optical Materials, 2021, 119, 111386.	3.6	0
9	Structural, electronic and optical properties of M-doped anatase TiO ₂ (M= Fe or Au): A first principle investigation. Computational Condensed Matter, 2021, 28, e00576.	2.1	10
10	Investigation of novel titanate nanotubes modified with Ce, Fe, Zn and Zr for efficient dye degradation performance, inhibition of bacterial and fungal growth and anticorrosion activity in acid medium. Reaction Kinetics, Mechanisms and Catalysis, 2021, 134, 517-537.	1.7	7
11	BGaAs strain compensation layer in novel BGaAs/InGaAs/BGaAs heterostructure: Exceptional tunability. Applied Surface Science, 2020, 524, 146573.	6.1	7
12	Experimental and theoretical study of novel BGaAs/GaAs single quantum well for photonic applications. Vacuum, 2020, 173, 109182.	3.5	3
13	New investigation of electronic properties of BGaAs/GaAs single quantum well for photonic applications. Optik, 2020, 205, 164253.	2.9	6
14	Graphene induced weak carrier localization in InGaN nanorods directly grown on graphene-covered Si. Diamond and Related Materials, 2020, 106, 107841.	3.9	3
15	Engineering of carrier localization in BGaAs SQW for novel intermediate band solar cells: Thermal annealing effect. Solar Energy, 2020, 199, 183-191.	6.1	12
16	New Strategy against COVID-19: L-Serine Doped QDs for Fast Detection of COVID-19 and Blocking of S-Protein. ECS Journal of Solid State Science and Technology, 2020, 9, 106002.	1.8	2
17	Carriers' localization and thermal redistribution in InAlAs/InP grown by MOCVD on (311)A- and (311)B-InP substrates. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	12
18	Impact of localization phenomenon and temperature on the photoluminescence spectra of GaSbBi alloys and GaSbBi/GaAs quantum dots. Superlattices and Microstructures, 2019, 129, 252-258.	3.1	8

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19	Carrier localization in In _{0.21} Ga _{0.79} As/GaAs multiple quantum wells: A modified Pässler model for the S-shaped temperature dependence of photoluminescence energy. Superlattices and Microstructures, 2017, 102, 351-358.	3.1	8
20	Investigation of the localization phenomenon in quaternary BInGaAs/GaAs for optoelectronic applications. Superlattices and Microstructures, 2017, 103, 386-394.	3.1	10
21	Effect of carriers localized in clusters on optical properties of In _{0.21} Ga _{0.79} As/GaAs multiple quantum wells. Current Applied Physics, 2017, 17, 1-5.	2.4	9
22	Detecting Spatially Localized Exciton in Self-Organized InAs/InGaAs Quantum Dot Superlattices: a Way to Improve the Photovoltaic Efficiency. Nanoscale Research Letters, 2017, 12, 450.	5.7	14
23	Effect of wavelengths and excitation density on the optical properties of P3HT: SiNWs bulk heterojunction for photovoltaic applications. Superlattices and Microstructures, 2016, 97, 409-416.	3.1	6
24	LSE investigation of the thermal effect on band gap energy and thermodynamic parameters of BInGaAs/GaAs Single Quantum Well. Optical Materials, 2016, 62, 267-272.	3.6	25
25	Localized state exciton model investigation of B-content effect on optical properties of BGaAs/GaAs epilayers grown by MOCVD. Vacuum, 2016, 132, 10-15.	3.5	18
26	Impact of photoluminescence temperature and growth parameter on the exciton localized in B x Ga 1-x As/GaAs epilayers grown by MOCVD. Optical Materials, 2016, 60, 487-494.	3.6	18
27	Effect of etching time and illumination on optical properties of SiNWs elaborated by Metal Assisted Chemical Etching (MACE) for organic photovoltaic applications. Superlattices and Microstructures, 2015, 85, 925-930.	3.1	12
28	Effect of Polymer Capping Layer on III-V Materials: Disorder's Control in P3HT/BGaAs/GaAs Heterostructure. Journal of Electronic Materials, 0, , 1.	2.2	1