

Muhammad Taha Sultan

List of Publications by Year in descending order

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22
papers

96
citations

1477746

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h-index

1372195

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23
all docs

23
docs citations

23
times ranked

64
citing authors

#	ARTICLE	IF	CITATIONS
1	SiGe nanocrystals in SiO ₂ with high photosensitivity from visible to short-wave infrared. Scientific Reports, 2020, 10, 3252.	1.6	21
2	Enhanced photoconductivity of SiGe nanocrystals in SiO ₂ driven by mild annealing. Applied Surface Science, 2019, 469, 870-878.	3.1	12
3	Enhanced photoconductivity of embedded SiGe nanoparticles by hydrogenation. Applied Surface Science, 2019, 479, 403-409.	3.1	11
4	Efficacy of annealing and fabrication parameters on photo-response of SiGe in TiO ₂ matrix. Nanotechnology, 2019, 30, 365604.	1.3	8
5	Obtaining SiGe nanocrystallites between crystalline TiO ₂ layers by HiPIMS without annealing. Applied Surface Science, 2020, 511, 145552.	3.1	8
6	Structural morphology and electrical transitions of V ₂ O ₃ thin films grown on SiO ₂ matrix. Applied Surface Science, 2020, 511, 145552.	0.8	8
7	Fabrication and characterization of Si _{1-x} Ge _x nanocrystals in as-grown and annealed structures: a comparative study. Beilstein Journal of Nanotechnology, 2019, 10, 1873-1882.	1.5	5
8	Structural and photoluminescence study of TiO ₂ layer with self-assembled Si _{1-x} Ge _x nanoislands. Journal of Applied Physics, 2020, 128, .	1.1	5
9	Structural and electrical properties of V ₂ O ₃ thin films on c-plane Al ₂ O ₃ fabricated by reactive-HiPIMS and dcMS techniques. Journal Physics D: Applied Physics, 2021, 54, 425302.	1.3	5
10	Synthesis and photoluminescence study of silicon nanowires obtained by metal assisted chemical etching. , 2021, , .		4
11	Influence of preparation conditions on structure and photosensing properties of GeSi/TiO ₂ /SiO ₂ /SiO ₂ /GeSi multilayers. , 2017, , .		3
12	Enhanced photoemission from surface modulated GaAs:Ge. Nano Select, 0, , .	1.9	3
13	The Effect of H ₂ /Ar Plasma Treatment Over Photoconductivity of SiGe Nanoparticles Sandwiched Between Silicon Oxide Matrix. , 2018, , .		1
14	Solid-state dewetting of silver-thin films: self-assembled nano-geometries. IOP SciNotes, 2020, 1, 035203.	0.4	1
15	Reversible control of the metal-insulator transition in V ₂ O ₃ thin films through plasma hydrogenation. Physica Scripta, 2022, 97, 035806.	1.2	1
16	Enhanced Photocurrent in GeSi NCs / TiO ₂ Multilayers. , 2018, , .		0
17	Enhanced Photoconductivity of SiGe-Trilayer Stack by Retrenching Annealing Conditions. , 2018, , .		0
18	Hydrogenated silicon films for low-loss resonant reflectors operating in the visible region. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Photoluminescence study of Si _{1-x} Gex nanoparticles in various oxide matrices. , 2021, , .		0
20	Facile formation of self-assembled Ga droplets on GaAs (001) substrate. , 2021, , .		0
21	Structural and electrical characterization of V ₂ O ₃ on various substrates: a comparative study. , 2021, , .		0
22	Modulating strain by growth interrupted deposition of polycrystalline V ₂ O ₃ films on SiO ₂ /Si substrates with improved metal-insulator transition characteristics. Applied Surface Science, 2022, 595, 153426.	3.1	0