

# Muhammad Taha Sultan

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

96  
citations

1477746

6  
h-index

1372195

10  
g-index

23  
all docs

23  
docs citations

23  
times ranked

64  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural morphology and electrical transitions of $V_2O_3$ thin films grown on $SiO_2/Si$ substrates with improved metal-insulator transition characteristics. <i>Applied Surface Science</i> , 2022, 595, 153426.	0.8	8
2	Reversible control of the metal-insulator transition in $V_2O_3$ thin films through plasma hydrogenation. <i>Physica Scripta</i> , 2022, 97, 035806.	1.2	1
3	Structural and electrical properties of $V_2O_3$ thin films on c-plane $Al_2O_3$ fabricated by reactive-HiPIMS and dcMS techniques. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 425302.	1.3	5
5	Photoluminescence study of $Si_{1-x}Ge_x$ nanoparticles in various oxide matrices. , 2021, , .		0
6	Facile formation of self-assembled Ga droplets on GaAs (001) substrate. , 2021, , .		0
7	Synthesis and photoluminescence study of silicon nanowires obtained by metal assisted chemical etching. , 2021, , .		4
8	Structural and electrical characterization of $V_2O_3$ on various substrates: a comparative study. , 2021, , .		0
9	Structural and photoluminescence study of $TiO_2$ layer with self-assembled $Si_{1-x}Ge_x$ nanoislands. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	5
10	Hydrogenated silicon films for low-loss resonant reflectors operating in the visible region. , 2020, , .		0
11	$SiGe$ nanocrystals in $SiO_2$ with high photosensitivity from visible to short-wave infrared. <i>Scientific Reports</i> , 2020, 10, 3252.	1.6	21
12	Obtaining $SiGe$ nanocrystallites between crystalline $TiO_2$ layers by HiPIMS without annealing. <i>Applied Surface Science</i> , 2020, 511, 145552.	3.1	8
13	Solid-state dewetting of silver-thin films: self-assembled nano-geometries. <i>IOP SciNotes</i> , 2020, 1, 035203.	0.4	1
14	Efficacy of annealing and fabrication parameters on photo-response of $SiGe$ in $TiO_2$ matrix. <i>Nanotechnology</i> , 2019, 30, 365604.	1.3	8
15	Enhanced photoconductivity of embedded $SiGe$ nanoparticles by hydrogenation. <i>Applied Surface Science</i> , 2019, 479, 403-409.	3.1	11
16	Fabrication and characterization of $Si_{1-x}Ge_x$ nanocrystals in as-grown and annealed structures: a comparative study. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1873-1882.	1.5	5
17	Enhanced photoconductivity of $SiGe$ nanocrystals in $SiO_2$ driven by mild annealing. <i>Applied Surface Science</i> , 2019, 469, 870-878.	3.1	12
18	Enhanced Photocurrent in $GeSi$ NCs / $TiO_2$ Multilayers. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	The Effect of H <sub>2</sub> /Ar Plasma Treatment Over Photoconductivity of Sige Nanoparticles Sandwiched Between Silicon Oxide Matrix. , 2018, , .		1
20	Enhanced Photoconductivity of SIGE-Trilayer Stack by Retrenching Annealing Conditions. , 2018, , .		0
21	Influence of preparation conditions on structure and photosensing properties of GeSi/TiO <sub>2</sub> /multilayers. , 2017, , .		3
22	Enhanced photoemission from surface modulated GaAs:Ge. Nano Select, 0, , .	1.9	3