Adil A Chahboun

List of Publications by Year
in descending order

76 papers	828 citations	623574 14 h-index	610775 24 g-index
77 all docs	77 docs citations	77 times ranked	852 citing authors

#	Article	IF	Citations
1	Effects of ion mass and energy on the damage induced by an ion beam on graphite surfaces: a scanning tunneling microscopy study. Surface Science, 1992, 262, 208-218.	0.8	68
2	Employing 2Dâ€Perovskite as an Electron Blocking Layer in Highly Efficient (18.5%) Perovskite Solar Cells with Printable Low Temperature Carbon Electrode. Advanced Energy Materials, 2022, 12, .	10.2	60
3	Parameterâ€™s extraction of solar photovoltaic models using an improved differential evolution algorithm. Energy Conversion and Management, 2022, 251, 114972.	4.4	54
4	Numerical simulation of mixed convection heat transfer of fluid in a cavity driven by an oscillating lid using lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2019, 137, 615-629.	2.5	34
5	Comparative study of micro- and ultrafiltration membranes using STM, AFM and SEM techniques. Ultramicroscopy, 1992, 41, 235-244.	0.8	32
6	Wettability of zinc oxide nanorod surfaces. RSC Advances, 2019, 9, 38289-38297.	1.7	29
7	Energy storage performance of ferroelectric ZrO₂ film capacitors: effect of HfO₂:Al₂O₃ dielectric insert layer. Journal of Materials Chemistry A, 2020, 8, 14171-14177.	5.2	29
8	Control of the growth of electrodeposited zinc oxide on FTO glass. CrystEngComm, 2018, 20, 6618-6628.	1.3	27
9	Comparison of strain relaxation in InGaAsN and InGaAs thin films. Applied Physics Letters, 2002, 80, 4357-4359.	1.5	22
10	Further insight into the temperature quenching of photoluminescence from InAsâˆ•GaAs self-assembled quantum dots. Journal of Applied Physics, 2008, 103, .	1.1	22
11	Raman study of stress effect on Ge nanocrystals embedded in Al2O3. Thin Solid Films, 2010, 518, 5378-5381.	0.8	22
12	Low-temperature fabrication of layered self-organized Ge clusters by RF-sputtering. Nanoscale Research Letters, 2011, 6, 341.	3.1	18
13	Effect of rapid thermal annealing on texture and properties of pulsed laser deposited zinc oxide thin films. Materials Letters, 2013, 98, 149-152.	1.3	15
14	Scanning tunneling microscopy of a liquid crystalline phase of poly((dA-dT) Â· (dA-dT)) induced by a histone H1 peptide. Ultramicroscopy, 1990, 34, 141-147.	0.8	14
15	Structural and optical properties of ZnO nanoparticles deposited on porous silicon for mc-Si passivation. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	14
16	Fill Factor Assessment in Hole Selective Layer Free Carbon Electrodeâ€Based Perovskite Solar Cells with 15.5% Certified Power Conversion Efficiency. Solar Rrl, 2022, 6, .	3.1	14
17	Structural, optical and magnetic properties of pulsed laser deposited Co-doped ZnO films. Journal of Magnetism and Magnetic Materials, 2015, 395, 28-33.	1.0	13
18	Effect of ZnO surface morphology on its electrochemical performance. RSC Advances, 2021, 11, 23346-23354.	1.7	13

#	Article	IF	Citations
19	Factors influencing the passivation of CdS quantum dots embedded in silica glass. Solar Energy Materials and Solar Cells, 2006, 90, 1413-1419.	3.0	11
20	Memory effect on CdSe nanocrystals embedded in SiO2 matrix. Solid State Communications, 2008, 148, 105-108.	0.9	11
21	Charging effects in CdSe nanocrystals embedded in SiO2 matrix produced by rf magnetron sputtering. Microelectronic Engineering, 2008, 85, 2374-2377.	1.1	11
22	Size and spatial homogeneity of SiGe quantum dots in amorphous silica matrix. Journal of Applied Physics, 2009, 106, 084319.	1.1	11
23	Mn-doped ZnO nanocrystals embedded in Al₂O₃: structural and electrical properties. Nanotechnology, 2010, 21, 505705.	1.3	11
24	Carrier storage in Ge nanoparticles produced by pulsed laser deposition. Physica Status Solidi - Rapid Research Letters, 2012, 6, 223-225.	1.2	11
25	First investigations on the use of scanning tunnelling microscopy (STM) for the characterisation of porous membranes. Journal of Membrane Science, 1992, 67, 295-300.	4.1	10
26	Suppression of the photoluminescence quenching effect in self-assembled InAsâˆ•GaAs quantum dots. Applied Physics Letters, 2005, 87, 053109.	1.5	10
27	Structural and electrical studies of ultrathin layers with Si0.7Ge0.3 nanocrystals confined in a SiGe/SiO2 superlattice. Journal of Applied Physics, 2012, 111, 104323.	1.1	10
28	Influence of Zinc Content in Ternary ZnCdS Films Deposited by Chemical Bath Deposition for Photovoltaic Applications. ECS Journal of Solid State Science and Technology, 2018, 7, P345-P349.	0.9	10
29	Performance evaluation and analysis of polycrystalline photovoltaic plant located in Northern Morocco. International Journal of Ambient Energy, 2022, 43, 1262-1268.	1.4	10
30	Perovskite ferroelectric thin film as an efficient interface to enhance the photovoltaic characteristics of Si/SnO_x heterojunctions. Journal of Materials Chemistry A, 2020, 8, 11314-11326.	5.2	10
31	Structural study of Si1âˆ’xGex nanocrystals embedded in SiO2 films. Thin Solid Films, 2010, 518, 2569-2572.	0.8	9
32	Charge trapping properties and retention time in amorphous SiGe/SiO2 nanolayers. Journal Physics D: Applied Physics, 2013, 46, 095306.	1.3	9
33	Effect of bi-layer ratio in ZnO/Al2O3 multilayers on microstructure and functional properties of ZnO nanocrystals embedded in Al2O3 matrix. Applied Physics A: Materials Science and Processing, 2014, 115, 283-289.	1.1	9
34	Investigation of photoelectrical properties of CdSe nanocrystals embedded in a SiO2matrix. Semiconductor Science and Technology, 2008, 23, 095025.	1.0	8
35	Structural and Optical Properties of Ge Nanocrystals Embedded in Al2O3. Journal of Nanoscience and Nanotechnology, 2008, 8, 572-576.	0.9	8
36	Multilayers of Ge nanocrystals embedded in Al2O3 matrix: Structural and electrical studies. Microelectronic Engineering, 2010, 87, 2508-2512.	1.1	8

#	Article	IF	Citations
37	Influence of the deposition parameters on the growth of SiGe nanocrystals embedded in Al2O3 matrix. Microelectronic Engineering, 2011, 88, 509-513.	1.1	8
38	Influence of annealing conditions on the formation of regular lattices of voids and Ge quantum dots in an amorphous alumina matrix. Nanotechnology, 2012, 23, 405605.	1.3	8
39	How Can We Adapt Thermal Comfort for Disabled Patients? A Case Study of French Healthcare Buildings in Summer. Energies, 2021, 14, 4530.	1.6	8
40	Post growing annealing effect on the optical, electrical and structural properties of CdSe nanocrystals embedded in silica thin films. Thin Solid Films, 2009, 517, 2538-2540.	0.8	7
41	Oxygen partial pressure effect on structural and electrical behavior of pulsed laser deposited Zn0.98Co0.02O thin films. Materials Chemistry and Physics, 2012, 135, 174-180.	2.0	7
42	A shadowed off-axis production of Ge nanoparticles in Ar gas atmosphere by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2013, 110, 585-590.	1.1	7
43	Dye-Doped ZnO Microcapsules for High Throughput and Sensitive Optofluidic Micro-Thermometry. Micromachines, 2020, 11, 100.	1.4	7
44	Scanning tunneling microscopy of the damage induced by ion bombardment on a graphite surface. Ultramicroscopy, 1992, 42-44, 653-659.	0.8	6
45	Influence of matrix defects on the photoluminescence of InAs self-assembled quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1348-1352.	0.8	6
46	Estimation of Ge nanocrystals size by Raman, X-rays, and HRTEM techniques. Microscopy and Microanalysis, 2008, 14, 61-64.	0.2	6
47	Shadowed off-axis production of Ge nanoparticles in Ar gas atmosphere by pulsed laser deposition: Morphological, structural and charge trapping properties. Applied Surface Science, 2013, 280, 632-640.	3.1	6
48	Touch sensor and photovoltaic characteristics of CuSbS2 thin films. Ceramics International, 2021, 47, 22594-22603.	2.3	6
49	Ballistic electron emission microscopy of Au/n-ZnSe contacts and local density of states spectroscopy. Journal of Applied Physics, 2000, 87, 2422-2426.	1.1	5
50	Annealing effect on the photoluminescence of Ge-doped silica films. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 674-679.	1.3	5
51	Effect of oxygen pressure on the structural and magnetic properties of thin Zn_{0.98}Mn_{0.02}O films. EPJ Applied Physics, 2012, 57, 10301.	0.3	5
52	Charge storage behavior of nanostructures based on SiGe nanocrystals embedded in Al2O3 matrix. European Physical Journal B, 2013, 86, 1.	0.6	5
53	SiGe layer thickness effect on the structural and optical properties of well-organized SiGe/SiO2multilayers. Nanotechnology, 2017, 28, 345701.	1.3	5
54	Solar Photovoltaic Cell Parameters Extraction Using Differential Evolution Algorithm. Proceedings (mdpi), 2020, 63, .	0.2	5

#	Article	IF	Citations
55	Confinement effect in CdTe nanocrystals embedded in silica thin films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1500-1504.	0.8	4
56	Tuning the properties of Ge-quantum dots superlattices in amorphous silica matrix through deposition conditions. Journal of Applied Physics, 2012, 111, 074316.	1.1	4
57	Rhodamine B Doped ZnO Monodisperse Microcapsules: Droplet-Based Synthesis, Dynamics and Self-Organization of ZnO Nanoparticles and Dye Molecules. Nanomaterials, 2020, 10, 2351.	1.9	4
58	Ge nanocrystals in alumina matrix: A structural study. Journal of Physics: Conference Series, 2010, 209, 012060.	0.3	3
59	Ge nanocrystals with highly uniform size distribution deposited on alumina at room temperature by pulsed laser deposition: structural, morphological, and charge trapping properties. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	3
60	First results towards building up a reliable in situ measurements database for LST algorithm validations using modular WSN: Northern Morocco campaigns case study. International Journal of Remote Sensing, 2013, 34, 3153-3163.	1.3	3
61	IBA study of SiGe/SiO2 nanostructured multilayers. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 89-92.	0.6	3
62	Controlled modifications of electron injection on Au/Si and Au/SiO2/Si contacts using ballistic electron emission microscopy. Journal of Applied Physics, 2001, 89, 6302-6307.	1.1	2
63	Temperature dependence of photoluminescence from CdSe nanocrystals embedded in silica matrix. Journal of Luminescence, 2009, 129, 1235-1238.	1.5	2
64	Study of the substitution effect of Mn doped in ZnO matrix. EPJ Applied Physics, 2010, 50, 30801.	0.3	2
65	Performance evaluation and experimental validation of different empirical models for predicting photovoltaic output power. International Journal of Ambient Energy, 2022, 43, 7437-7453.	1.4	2
66	An operative land surface temperature splitwindow algorithm: application to the korean peninsula pathfinder AVHRR land data. , 0, , .		1
67	Towards an operative land surface temperature in-situ measurements system for remote sensing models validations. , 0, , .		1
68	Influence of RF-sputtering power on formation of vertically stacked Si_{1â^'x}Ge_xnanocrystals between ultra-thin amorphous Al₂O₃layers: structural and photoluminescence properties. Journal Physics D: Applied Physics, 2013, 46, 385301.	1.3	1
69	The Effect of Defects on the Overall Performance of CuInSe2/CdS/ZnO Thin Film Solar Cells. , 2017, , .		1
70	One-Step Synthesis of Highly Monodisperse ZnO Core-Shell Microspheres in Microfluidic Devices. , 2019, , .		1
71	Hot hole transport through Au/n-Si(100) studied by reverse ballistic electron emission microscopy and spectroscopy. Surface Science, 2000, 462, 61-67.	0.8	0
72	Ballistic electron emission microscopy studies of ZnSeâ€“BeTe heterojunctions. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 1781.	1.6	0

#	Article	IF	Citations
73	Growth and characterization of Mnâ€doped ZnO/TiO₂ multilayer nanostructures grown by pulsed laser deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2724-2726.	0.8	0
74	THERMAL STABILITY OF ENERGY-EMISSION FROM CdTe NANOCRYSTALS EMBEDDED IN SiO₂ THIN FILMS. Modern Physics Letters B, 2010, 24, 2837-2843.	1.0	0
75	Structural Study of Formation of Mn-Doped ZnO Nanocrystals Embedded in Alumina Matrix from ZnMnO/Al$_{2}$O$_{3}$ Multilayer Nanostructures. Applied Physics Express, 2012, 5, 041101.	1.1	0
76	Simulation of hydrophobic surfaces: A case study of ZnO thin film. , 2014, , .		0