Yasuhiro Matsumoto

List of Publications by Year
in descending order

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52	553	687363 13	713466 21
papers	citations	h-index	g-index

52	52	52	531
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new type of high efficiency with a lowâ€cost solar cell having the structure of a Î¼câ€SiC/polycrystalline silicon heterojunction. Journal of Applied Physics, 1990, 67, 6538-6543.	2.5	83
2	Applications of solar and wind renewable energy in agriculture: A review. Science Progress, 2019, 102, 127-140.	1.9	50
3	CoS thin films prepared with modified chemical bath deposition. Thin Solid Films, 2002, 415, 173-176.	1.8	41
4	P-type Polycrystalline Si Films Prepared by Aluminum-Induced Crystallization and Doping Method. Japanese Journal of Applied Physics, 2001, 40, 2110-2114.	1.5	27
5	Size modulation of nanocrystalline silicon embedded in amorphous silicon oxide by Cat-CVD. Thin Solid Films, 2011, 519, 4498-4501.	1.8	17
6	Systematic analysis of factors affecting solar PV deployment. Journal of Energy Storage, 2016, 6, 163-172.	8.1	17
7	White bright luminescence at room temperature from TEOS-based thin films via catalytic chemical vapor deposition. Materials Letters, 2014, 131, 295-297.	2.6	16
8	In situ synthesis of Cu2O and Cu nanoparticles during the thermal reduction of copper foil-supported graphene oxide. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	16
9	Surface chemistry and density distribution influence on visible luminescence of silicon quantum dots: an experimental and theoretical approach. Physical Chemistry Chemical Physics, 2017, 19, 1526-1535.	2.8	16
10	Optical characterization of crystalline silicon embedded in a-Si matrix. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1832-1836.	0.8	15
11	An ANFIS-Based Modeling Comparison Study for Photovoltaic Power at Different Geographical Places in Mexico. Energies, 2019, 12, 2662.	3.1	15
12	Hot wire-CVD deposited a-SiOx and its characterization. Thin Solid Films, 2006, 501, 95-97.	1.8	14
13	Nanocrystalline Si/SiO2 core-shell network with intense white light emission fabricated by hot-wire chemical vapor deposition. Applied Physics Letters, 2015, 106, 171912.	3.3	14
14	Global Solar Irradiation in North Mexico City and Some Comparisons with the South. Energy Procedia, 2014, 57, 1179-1188.	1.8	13
15	in situformation of rGO quantum dots during GO reduction via interaction with citric acid in aqueous medium. Materials Research Express, 2016, 3, 105601.	1.6	13
16	a-Si Basis Heterojunction Stacked Solar Cells. Materials Research Society Symposia Proceedings, 1986, 70, 481.	0.1	12
17	SiO2 deposition approaches using catalytic chemical-vapor deposition method. Journal of Applied Physics, 2005, 98, 014909.	2.5	12
18	Emission and structure investigations of Si nano-crystals embedded in amorphous silicon. Journal of Physics: Conference Series, 2007, 61, 1231-1235.	0.4	12

#	Article	IF	Citations
19	Optical investigation of Si nano-crystals in amorphous silicon matrix. Microelectronics Journal, 2005, 36, 510-513.	2.0	11
20	Correlation between the photoluminescence and different types of Si nano-clusters in amorphous silicon. Journal of Non-Crystalline Solids, 2008, 354, 2186-2189.	3.1	11
21	Simple synthesis of PbSe nanocrystals and their self-assembly into 2D â€˜flakesâ€™ and 1D â€˜ribbonsâ€™ structures. Materials Research Bulletin, 2016, 80, 96-101.	5.2	11
22	Low temperature SnO2 films deposited by APCVD. Microelectronics Journal, 2008, 39, 586-588.	2.0	10
23	Diamond films grown on p-type microcrystalline-SiC:H/crystalline-Si substrates. Diamond and Related Materials, 1994, 3, 177-181.	3.9	9
24	Luminescent silicon oxycarbide thin films obtained with monomethyl-silane by hot-wire chemical vapor deposition. Journal of Alloys and Compounds, 2019, 780, 341-346.	5.5	9
25	The role of an amorphous SiC:H 'buffer' in the high-performance mu c-SiC:H/a-SiC:H/poly-Si heterojunction solar cells. IEEE Electron Device Letters, 1991, 12, 562-564.	3.9	8
26	Wide optical bandgap p-type Î¼c-Si:Ox:H prepared by Cat-CVD and comparisons to p-type Î¼c-Si:H. Thin Solid Films, 2008, 516, 593-596.	1.8	8
27	Development of highly faceted reduced graphene oxide-coated copper oxide and copper nanoparticles on a copper foil surface. Beilstein Journal of Nanotechnology, 2016, 7, 1010-1017.	2.8	8
28	Cat-CVD-prepared oxygen-rich Î¼c-Si:H for wide-bandgap material. Thin Solid Films, 2005, 490, 173-176.	1.8	6
29	Photoluminescence and structure investigations of Si nano-crystals in amorphous silicon matrix. Journal of Non-Crystalline Solids, 2006, 352, 1188-1191.	3.1	6
30	One-year 60 kWp Photovoltaic System Energy Performance at CINVESTAV, Mexico City. Energy Procedia, 2014, 57, 217-225.	1.8	6
31	Meteorological Variablesâ€™ Influence on Electric Power Generation for Photovoltaic Systems Located at Different Geographical Zones in Mexico. Applied Sciences (Switzerland), 2019, 9, 1649.	2.5	6
32	Study of the synthesis of selfâ€•assembled tin disulfide nanoparticles prepared by a lowâ€cost process. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 564-567.	0.8	5
33	Nucleation and growth of diamond films on mu c-SiC/x-Si by hot-filament CVD. Journal of Physics Condensed Matter, 1993, 5, A305-A306.	1.8	4
34	Luminescence study of Si/SiC nano-particles embedded in SiOxCy matrix deposited using O-Cat-CVD. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 111, 179-184.	2.7	4
35	The influence of deposition time on the photoluminescent properties of SiOxCy thin films obtained by Cat-CVD from monomethyl silane precursor. Materials Letters, 2021, 291, 129547.	2.6	4
36	HW-CVD Deposited Nanocrystalline Silicon Thin Films at Low Substrate Temperature with White-Blue Luminescence. Current Nanoscience, 2015, 11, 621-626.	1.2	4

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37	Renewable energy application progress in Mexico. Renewable Energy, 1994, 5, 330-332.	8.9	3
38	Influence of low-temperature annealing on the dielectric characteristics and final parameters of SiO2 MIS thin film transistors. Thin Solid Films, 1997, 298, 241-244.	1.8	3
39	Blue to red emission from as-deposited nc-silicon/silicon dioxide by hot wire chemical vapor deposition. Thin Solid Films, 2015, 595, 221-225.	1.8	3
40	Study of porogen removal by atomic hydrogen generated by hot wire chemical vapor deposition for the fabrication of advanced low-k thin films. Thin Solid Films, 2015, 575, 103-106.	1.8	3
41	Data and energy efficiency indicators of freight transport sector in Mexico. Case Studies on Transport Policy, 2021, 9, 1336-1343.	2.5	3
42	Characterization of a P3HT- Si Heterojuntion for Solar Cells Applications. ECS Transactions, 2007, 9, 587-593.	0.5	2
43	Synthesis of AgInSnS4 thin films by adding tin (Sn) into the chalcopyrite structure of AgInS2 using spray pyrolysis. Thin Solid Films, 2010, 518, 1821-1824.	1.8	1
44	Oxygen concentration effect on properties of SiOC thin films obtained by HWCVD. , 2017, , .		1
45	Spark plasma sintered Bi0.90Sb0.10 and Bi0.86Sb0.14 alloys and their electrical and thermal transport properties. Materials Science in Semiconductor Processing, 2020, 120, 105280.	4.0	1
46	Improvement of a-Si:H Solar Cell Characteristics by means of a Boron-Carbon Window Layer. Japanese Journal of Applied Physics, 1997, 36, L467-L469.	1.5	0
47	POLY-SILICON THIN FILMS PREPARED BY LOW TEMPERATURE ALUMINUM-INDUCED CRYSTALLIZATION. Modern Physics Letters B, 2001, 15, 716-721.	1.9	0
48	Boron-doped microcrystalline-phase involved amorphous silicon oxide windows prepared by Cat-CVD. , 2006, , .		0
49	Influence of a thin intrinsic a-Si:H layer on the Iâ€“V characteristics of a-Si:H/c-Si diodes made by hot-wire CVD. , 2009, , .		0
50	Deposition of nanocrystalline-silicon by Cat-CVD method and its characterization. , 2009, , .		0
51	Effect of chamber pressure on red emission from silicon thin films deposited by means of hot-wire CVD. , 2015, , .		0
52	36 MONTH PERFORMANCE OF 60 KWP PHOTOVOLTAIC SYSTEM IN MEXICO CITY. Revista Mexicana De Ingeniera Quimica, 2019, 18, 1017-1025.	0.4	0