J-L Deschanvres

List of Publications by Year
in descending order

72 papers	1,072 citations	430874 18 h-index	501196 28 g-index
72 all docs	72 docs citations	72 times ranked	1357 citing authors

#	Article	IF	Citations
1	In situ ellipsometry monitoring of TiO2 atomic layer deposition from Tetrakis(dimethylamido)titanium(IV) and H2O precursors on Si and In0.53Ga0.47As substrates. Thin Solid Films, 2021, 723, 138591.	1.8	5
2	Grain-boundary segregation of magnesium in doped cuprous oxide and impact on electrical transport properties. Scientific Reports, 2021, 11, 7788.	3.3	5
3	Optimized Stoichiometry for CuCrO2 Thin Films as Hole Transparent Layer in PBDD4T-2F:PC70BM Organic Solar Cells. Nanomaterials, 2021, 11, 2109.	4.1	3
4	The effect of rare earth element (Er, Yb) doping and heat treatment on suspension stability of Y2O3 nanoparticles elaborated by sol-gel method. Journal of Materials Research and Technology, 2020, 9, 12634-12642.	5.8	11
5	Marine Antibiofouling Properties of TiO2 and Ti-Cu-O Films Deposited by Aerosol-Assisted Chemical Vapor Deposition. Coatings, 2020, 10, 779.	2.6	6
6	In Situ Ellipsometry Study of the Early Stage of ZnO Atomic Layer Deposition on In 0.53 Ga 0.47 As. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900831.	1.8	6
7	In situ x-ray studies of the incipient ZnO atomic layer deposition on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:mrow><mml:mn>0.53</mml:mn> Physical Review Materials, 2020, 4, .	2.4	7
8	The Role of Humidity in Tuning the Texture and Electrical Properties of Cu₂O Thin Films Deposited via Aerosolâ€Assisted CVD. Advanced Materials Interfaces, 2019, 6, 1801364.	3.7	2
9	SnO2 Films Deposited by Ultrasonic Spray Pyrolysis: Influence of Al Incorporation on the Properties. Molecules, 2019, 24, 2797.	3.8	25
10	Resilience of Cuprous Oxide under Oxidizing Thermal Treatments via Magnesium Doping. Journal of Physical Chemistry C, 2019, 123, 8663-8670.	3.1	11
11	Cu₂O Thin Films: The Role of Humidity in Tuning the Texture and Electrical Properties of Cu₂O Thin Films Deposited via Aerosolâ€Assisted CVD (Adv. Mater. Interfaces 3/2019). Advanced Materials Interfaces, 2019, 6, 1970020.	3.7	9
12	Exploring the optical properties of Vernier phase yttrium oxyfluoride thin films grown by pulsed liquid injection MOCVD. Dalton Transactions, 2018, 47, 2655-2661.	3.3	4
13	ZnO/CuCrO₂ Coreâ€“Shell Nanowire Heterostructures for Selfâ€Powered UV Photodetectors with Fast Response. Advanced Functional Materials, 2018, 28, 1803142.	14.9	75
14	The initial stages of ZnO atomic layer deposition on atomically flat In_{0.53}Ga_{0.47}As substrates. Nanoscale, 2018, 10, 11585-11596.	5.6	11
15	Structural study of TiO₂hierarchical microflowers grown by aerosol-assisted MOCVD. CrystEngComm, 2017, 19, 1535-1544.	2.6	8
16	Deposition of ZnO based thin films by atmospheric pressure spatial atomic layer deposition for application in solar cells. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	51
17	Tuning the properties of F:SnO₂ (FTO) nanocomposites with S:TiO₂ nanoparticles â€“ promising hazy transparent electrodes for photovoltaics applications. Journal of Materials Chemistry C, 2017, 5, 91-102.	5.5	15
18	Evaluation of Alternative Atomistic Models for the Incipient Growth of ZnO by Atomic Layer Deposition. Journal of Electronic Materials, 2017, 46, 3512-3517.	2.2	6

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19	The Effect of Solvents and Rare-Earth Element (Er, Yb) Doping on Suspension Stability of Solâ€“Gel Titania Nanoparticles. IEEE Transactions on Nanobioscience, 2017, 16, 718-726.	3.3	6
20	The quest towards epitaxial BaMgF4 thin films: exploring MOCVD as a chemical scalable approach for the deposition of complex metal fluoride films. Dalton Transactions, 2016, 45, 17833-17842.	3.3	3
21	Efficient green and red up-conversion emissions in Er/Yb co-doped TiO 2 nanopowders prepared by hydrothermal-assisted solâ€“gel process. Journal of Luminescence, 2016, 176, 250-259.	3.1	48
22	SIRIUS: A new beamline for in situ X-ray diffraction and spectroscopy studies of advanced materials and nanostructures at the SOLEIL Synchrotron. Thin Solid Films, 2016, 617, 48-54.	1.8	28
23	An Atomistic View of the Incipient Growth of Zinc Oxide Nanolayers. Crystal Growth and Design, 2016, 16, 5339-5348.	3.0	14
24	Magnesiumâ€doped cuprous oxide (Mg:Cu₂O) thin films as a transparent pâ€type semiconductor. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2296-2302.	1.8	24
25	Effect of Strontium Incorporation on the p-Type Conductivity of Cu₂O Thin Films Deposited by Metalâ€“Organic Chemical Vapor Deposition. Journal of Physical Chemistry C, 2016, 120, 17261-17267.	3.1	14
26	Evolution of Crystal Structure During the Initial Stages of ZnO Atomic Layer Deposition. Chemistry of Materials, 2016, 28, 592-600.	6.7	31
27	Efficient upconversion in Er3+ doped Y2O3/Si thin film deposited by aerosol UV-assisted MOCVD process. Journal of Luminescence, 2016, 170, 231-239.	3.1	9
28	Growth and characterization of Sr-doped Cu₂O thin films deposited by metalorganic chemical vapor deposition. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1735-1741.	1.8	33
29	Antireflective downconversion ZnO:Er3+,Yb3+ thin film for Si solar cell applications. Journal of Applied Physics, 2015, 117, .	2.5	22
30	Growth and Properties of Amorphous Erbiumâ€doped Aluminumâ€yttrium Oxide Films Deposited by Aerosolâ€UVâ€Assisted MOCVD. Chemical Vapor Deposition, 2015, 21, 26-32.	1.3	4
31	Highly efficient NIR to visible upconversion in a ZnO:Er,Yb thin film deposited by a AACVD atmospheric pressure process. RSC Advances, 2015, 5, 60246-60253.	3.6	15
32	Growth rate induced high efficient light trapping/photon conversion ZnO:Nd 3+ nanodisk shaped thin films deposited by AACVD process. Journal of Alloys and Compounds, 2015, 651, 756-763.	5.5	2
33	Efficient antireflective downconversion Er3+ doped ZnO/Si thin film. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1733-1738.	2.1	13
34	Antireflection and downconversion response of Nd3+ doped Y2O3/Si thin film deposited by AACVD process. Chemical Physics Letters, 2014, 612, 1-7.	2.6	4
35	Structural and luminescence correlation of annealed Er-ZnO/Si thin films deposited by AACVD process. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1124-1129.	3.5	22
36	Growth of lanthanide-doped YF3 thin films by pulsed liquid injection MOCVD: Influence of deposition parameters on film microstructure. Surface and Coatings Technology, 2013, 230, 22-27.	4.8	6

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37	In-situ Raman spectroscopy and X-ray diffraction studies of the structural transformations leading to the SrCu2O2 phase from strontiumâ€“copper oxide thin films deposited by metalorganic chemical vapor deposition. Thin Solid Films, 2013, 541, 136-141.	1.8	19
38	Preparation and microstructural properties of erbium doped aluminaâ€“yttria oxide thin films deposited by aerosol MOCVD. Journal of Luminescence, 2013, 142, 52-56.	3.1	3
39	Effect of thermal annealing on electrical and optical properties of Ba-doped SrCu2 O2 thin films on glass substrates. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2569-2574.	1.8	4
40	Effect of humidity and UV-assistance on the preparation of erbium doped alumina by aerosol MOCVD process. Applied Surface Science, 2012, 258, 2591-2596.	6.1	3
41	Thulium and Ytterbium-Doped Titanium Oxide Thin Films Deposited by Ultrasonic Spray Pyrolysis. Journal of Thermal Spray Technology, 2012, 21, 1263-1268.	3.1	14
42	Thulium and ytterbium-doped titania thin films deposited by MOCVD. Energy Procedia, 2011, 10, 192-196.	1.8	1
43	Effect of Humidity and UV Assistance on the Properties of Erbium Doped Yttrium Oxide Films Prepared by Aerosol-MOCVD. Chemical Vapor Deposition, 2011, 17, 93-97.	1.3	16
44	Influence of deposition conditions on the optical properties of erbium-doped yttrium oxide films grown by aerosolâ€“UV assisted MOCVD. Journal of Luminescence, 2011, 131, 2311-2316.	3.1	13
45	Direct bonding conditions of ferrite garnet layer on ionâ€exchanged glass waveguides. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2313-2316.	1.8	6
46	Study of the growth and annealing conditions of SrCu2O2(SCO) thin films deposited by injection MOCVD. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2013-2017.	1.8	13
47	An RBS study of thin PLD and MOCVD strontium copper oxide layers. Thin Solid Films, 2008, 516, 8136-8140.	1.8	0
48	Growth and characterisation of CaCu2Ox thin films by pulsed injection MOCVD. Thin Solid Films, 2008, 516, 1461-1463.	1.8	10
49	Growth of Amorphous Tiâ€“Siâ€“O Thin Films by Aerosol CVD Process at Atmospheric Pressure. Journal of the Electrochemical Society, 2008, 155, D110.	2.9	7
50	Thermal annealing of amorphous Tiâ€“Siâ€“O thin films. Journal of Materials Research, 2008, 23, 755-759.	2.6	17
51	Inorganic color filters by MOCVD for CMOS imager and colorimetry. Proceedings of SPIE, 2008, , .	0.8	1
52	Deposition of TiO2 thin films by atmospheric plasma post-discharge assisted injection MOCVD. Surface and Coatings Technology, 2007, 201, 8971-8975.	4.8	17
53	Study of the growth conditions and characterization of CaCu2Ox and SrCu2Ox thin films. Surface and Coatings Technology, 2007, 201, 9395-9399.	4.8	2
54	Optical and crystal-field analysis of Er3+ ion in Y2O3â€“P2O5 thin films. Journal of Luminescence, 2007, 126, 165-170.	3.1	10

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55	Density, thickness and composition measurements of TiO2SiO2 thin films by coupling X-ray reflectometry, ellipsometry and electron probe microanalysis-X. Applied Surface Science, 2006, 253, 363-366.	6.1	11
56	Influence of physico-structural properties on the photocatalytic activity of sol-gel derived TiO2 thin films. Journal of Materials Science, 2006, 41, 2915-2927.	3.7	29
57	Use of cerium ethylhexanoate solutions for preparation of CeO2 buffer layers by spin coating. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 104, 185-191.	3.5	22
58	Crystal field analysis of erbium doped yttrium oxide thin films inC2 andC3i sites. Physica Status Solidi (B): Basic Research, 2003, 239, 193-202.	1.5	25
59	Deposition by an aerosol assisted MOCVD process of Eu or Er doped Y2O3-P2O5 thin films. European Physical Journal Special Topics, 2001, 11, Pr3-653-Pr3-660.	0.2	1
60	Aerosol synthesis of Tiâ€“O powders via in-droplet hydrolysis of titanium alkoxide. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 315, 113-121.	5.6	33
61	Preparation of nanocrystalline titania powder via aerosol pyrolysis of titanium tetrabutoxide. Journal of Materials Research, 1999, 14, 3938-3948.	2.6	44
62	Er, Yb, and Er, Yb (CO-)doped yttria thin films, deposited by an aerosol assisted MO-CVD process. European Physical Journal Special Topics, 1999, 09, Pr8-583-Pr8-588.	0.2	4
63	Elaboration par le procÃ©dÃ© pyrosol de couches minces texturÃ©es de ZnO pour la rÃ©alisation de microcapteurs. Journal De Physique III, 1994, 4, 1243-1251.	0.3	3
64	Thin films of high-resistivity zinc oxide produced by a modified CVD method. Thin Solid Films, 1992, 213, 94-98.	1.8	61
65	Characterization of piezoelectric properties of zinc oxide thin films deposited on silicon for sensors applications. Sensors and Actuators A: Physical, 1992, 33, 43-45.	4.1	50
66	Couches minces de grenat substituÃ© dÃ©posÃ©es par le procÃ©dÃ© pyrosol pour l'enregistrement magnÃ©to-optique. European Physical Journal Special Topics, 1992, 02, C3-29-C3-33.	0.2	2
67	Growth of Bi-substituted YIG thin films for magneto-optic applications. Journal of Magnetism and Magnetic Materials, 1991, 101, 224-226.	2.3	4
68	Growth of garnet thin films for magneto-optic memories by pyrosol CVD process. IEEE Transactions on Magnetics, 1990, 26, 187-189.	2.1	10
69	New spray pyrolysis deposition and magnetic properties of ferrite thin films for microwave applications. Journal of Magnetism and Magnetic Materials, 1990, 83, 437-438.	2.3	16
70	Garnet thin film deposited by a new chemical vapour deposition. Thin Solid Films, 1989, 175, 281-285.	1.8	10
71	High Tc superconducting films obtained by pyrolysis of an ultrasonically deposited gel. Thin Solid Films, 1989, 174, 263-268.	1.8	16
72	Out of stoichiometry CuCrO₂ films as a promising p-type TCO for transparent electronics. Materials Advances, 0, , .	5.4	17