

Frans Munnik

List of Publications by Year in descending order

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papers

1,134
citations

394421

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58
all docs

58
docs citations

58
times ranked

1748
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Layer Deposition of Platinum Oxide and Metallic Platinum Thin Films from Pt(acac) ₂ and Ozone. Chemistry of Materials, 2008, 20, 6840-6846.	6.7	90
2	Lithium Phosphate Thin Films Grown by Atomic Layer Deposition. Journal of the Electrochemical Society, 2012, 159, A259-A263.	2.9	83
3	Atomic Layer Deposition of Iridium Oxide Thin Films from Ir(acac) ₃ and Ozone. Chemistry of Materials, 2008, 20, 2903-2907.	6.7	60
4	The Atomic Layer Deposition of HfO ₂ and ZrO ₂ using Advanced Metallocene Precursors and H ₂ O as the Oxygen Source. Chemical Vapor Deposition, 2008, 14, 358-365.	1.3	51
5	Oxyhydride Nature of Rare-Earth-Based Photochromic Thin Films. Journal of Physical Chemistry Letters, 2019, 10, 1342-1348.	4.6	45
6	Nitrogen at the Si-nanocrystal and its influence on luminescence and interface defects. Physical Review B, 2010, 82, .	3.2	32
7	MAX phase formation by intercalation upon annealing of TiC /Al (0.4 $\hat{\otimes}$ 1/2 $\hat{\otimes}$ 1/2 1) bilayer thin films. Acta Materialia, 2011, 59, 6168-6175.	7.9	41
8	Iodine in alluvial platinum-palladium nuggets: Evidence for biogenic precious-metal fixation. Chemical Geology, 2011, 281, 125-132.	3.3	40
9	Study of amorphous lithium silicate thin films grown by atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	39
10	Carbon p Electron Ferromagnetism in Silicon Carbide. Scientific Reports, 2015, 5, 8999.	3.3	38
11	Film formation and characterization of anodic oxides on titanium for biomedical applications. Surface and Interface Analysis, 2006, 38, 182-185.	1.8	35
12	Atomic Layer Deposition of LiF Thin Films from Lithd and TiF ₄ Precursors. Chemical Vapor Deposition, 2013, 19, 111-116.	1.3	33
13	Atomic Layer Deposition of Aluminum and Titanium Phosphates. Journal of Physical Chemistry C, 2012, 116, 5920-5925.	3.1	31
14	Defect-induced magnetism in SiC: Interplay between ferromagnetism and paramagnetism. Physical Review B, 2015, 92, .	3.2	31
15	Single crystal strontium titanate surface and bulk modifications due to vacuum annealing. Journal of Applied Physics, 2011, 110, .	2.5	29
16	ALD of YF ₃ Thin Films from TiF ₄ and Y(thd) ₃ Precursors. Chemical Vapor Deposition, 2009, 15, 27-32.	1.3	28
17	Native Cu from the oceanic crust: Isotopic insights into native metal origin. Chemical Geology, 2013, 359, 136-149.	3.3	28
18	Disentangling defect-induced ferromagnetism in SiC. Physical Review B, 2014, 89, .	3.2	25

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19	Study on Atomic Layer Deposition of Amorphous Rhodium Oxide Thin Films. Journal of the Electrochemical Society, 2009, 156, D418.	2.9	21
20	Creating sub-surface channels in PMMA with ion beam lithography in only one step. Applied Surface Science, 2003, 217, 289-293.	6.1	19
21	Atomic layer deposition of CaB ₂ O ₄ films using bis(tris(pyrazolyl)borate)calcium as a highly thermally stable boron and calcium source. Journal of Materials Chemistry, 2010, 20, 9995.	6.7	19
22	Magnetic characterization and electrical field-induced switching of magnetite thin films synthesized by atomic layer deposition and subsequent thermal reduction. Journal Physics D: Applied Physics, 2014, 47, 485001.	2.8	19
23	Mineralogical and geochemical investigation of seafloor massive sulfides from Panarea Platform (Aeolian Arc, Tyrrhenian Sea). Chemical Geology, 2013, 335, 136-148.	3.3	18
24	Sub-pixel resolution with a color X-ray camera. Journal of Analytical Atomic Spectrometry, 2015, 30, 1890-1897.	3.0	18
25	Structural and mechanical characterization of BC _x N _y thin films deposited by pulsed reactive magnetron sputtering. Thin Solid Films, 2009, 518, 77-83.	1.8	17
26	Atomic Layer Deposition Growth of BaB ₂ O ₄ Thin Films from an Exceptionally Thermally Stable Tris(pyrazolyl)borate-Based Precursor. Chemistry of Materials, 2009, 21, 3742-3744.	6.7	17
27	Resonance triplet at E _± =4.5 MeV in the ⁴⁰ Ca([±] , [±]) ⁴⁴ Ti reaction. Physical Review C, 2013, 88, .	2.9	16
28	Morphology and Structure of C:Co, C:V, and C:Cu Nanocomposite Films. Plasma Processes and Polymers, 2009, 6, S902.	3.0	14
29	Sculpting nanoscale precipitation patterns in nanocomposite thin films via hyperthermal ion deposition. Applied Physics Letters, 2010, 97, .	3.3	14
30	High rate deposition of amorphous hydrogenated carbon films by hollow cathode arc PECVD. Surface and Coatings Technology, 2012, 212, 67-71.	4.8	12
31	Structural and magnetic properties of irradiated SiC. Journal of Applied Physics, 2014, 115, 17C104.	2.5	12
32	Substrate Effects on the Morphology of Carbon Encapsulated Nickel Nanoparticles Grown by Surface Diffusion Assisted Phase Separation. Journal of Physical Chemistry C, 2009, 113, 8645-8651.	3.1	11
33	The Atomic Layer Deposition of SrB ₂ O ₄ Films Using the Thermally Stable Precursor Bis(tris(pyrazolyl)borate)strontium. Chemical Vapor Deposition, 2011, 17, 128-134.	1.3	11
34	GGR Biennial Critical Review: Analytical Developments Since 2014. Geostandards and Geoanalytical Research, 2017, 41, 493-562.	3.1	11
35	Comparison of a new photoresist (DiaPlate 133) with SU-8 using both x-ray and ion beam lithographies. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 1982.	1.6	9
36	Native aluminum: Does it exist?. American Mineralogist, 2009, 94, 1283-1286.	1.9	9

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37	LaFeOxNy perovskite thin films: Nitrogen location and its effect on morphological, optical and structural properties. <i>Journal of Alloys and Compounds</i> , 2017, 724, 74-83.	5.5	9
38	Direct writing of microtunnels using proton beam micromachining. <i>Applied Surface Science</i> , 2006, 252, 7343-7346.	6.1	8
39	Phase stability of AlYB ₁₄ sputtered thin films. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 355006.	1.8	8
40	Synthesis, microstructure, and mechanical properties of YPd3B thin films. <i>Journal of Alloys and Compounds</i> , 2012, 540, 75-80.	5.5	7
41	Microstructural Studies of Fluorine-implanted Titanium Aluminides for Enhanced Environmental Durability. <i>Advanced Engineering Materials</i> , 2014, 16, 52-59.	3.5	7
42	Visualization of trace-element zoning in fluorapatite using BSE and CL imaging, and EPMA and $\frac{1}{4}$ PIXE/ $\frac{1}{4}$ PIGE mapping. <i>Mineralogy and Petrology</i> , 2016, 110, 809-821.	1.1	7
43	Focused electron beam induced deposition of pure SiO ₂ . , 2007, , .		6
44	Compositional depth profiling of TaCN thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, 041510.	2.1	6
45	High resolution Rutherford Backscattering Spectrometry investigations of ZrO ₂ layer growth in the initial stage on native silicon oxide and titanium nitride. <i>Thin Solid Films</i> , 2012, 520, 5900-5905.	1.8	5
46	Reaction Pathways for Atomic Layer Deposition with Lithium Hexamethyl Disilazide, Trimethyl Phosphate, and Oxygen Plasma. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27829-27839.	3.1	5
47	Accurate stopping power determination of 15N ions for hydrogen depth profiling by a combination of ion beams and synchrotron radiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 273, 18-21.	1.4	4
48	Oxygen depth profiling with subnanometre depth resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 337, 27-33.	1.4	4
49	Formation, structure, and optical properties of copper chromite thin films for high-temperature solar absorbers. <i>Materialia</i> , 2021, 18, 101156.	2.7	4
50	Nitrogen redistribution in annealed LaFeOxNy thin films investigated by FTIR spectroscopy and EELS mapping. <i>Applied Surface Science</i> , 2018, 427, 1041-1045.	6.1	3
51	Phase Selectivity in Cr and N Co-Doped TiO ₂ Films by Modulated Sputter Growth and Post-Deposition Flash-Lamp-Annealing. <i>Coatings</i> , 2019, 9, 448.	2.6	3
52	Sputter Deposited Magnetostrictive Layers for SAW Magnetic Field Sensors. <i>Sensors</i> , 2021, 21, 8386.	3.8	3
53	The influence of the beam charge state on the analytical calculation of RBS and ERDA spectra. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 371, 121-124.	1.4	2
54	Enhancements in full-field PIXE imaging—Large area elemental mapping with increased lateral resolution devoid of optics artefacts. <i>X-Ray Spectrometry</i> , 2018, 47, 327-338.	1.4	2

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55	Native Sn–Pb droplets in a zeolitic amygdale (Isle of Mull, Inner Hebrides). <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2907-2919.	3.9	1
56	Phase Segregation and Transformations in Arsenic-Implanted ZnO Thin Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8798-8807.	3.1	1
57	Raising the temperature – spot analysis of temper inclusions in experimental ceramics. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 291, 25-35.	1.5	1
58	Surface reactions between LiHMDS, TMA and TMP leading to deposition of amorphous lithium phosphate. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3543-3551.	10.3	0