

Frans Munnik

List of Publications by Year in descending order

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58
papers

1,134
citations

394421

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414414

32
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all docs

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docs citations

58
times ranked

1748
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Formation, structure, and optical properties of copper chromite thin films for high-temperature solar absorbers. <i>Materialia</i> , 2021, 18, 101156.	2.7	4
3	Sputter Deposited Magnetostrictive Layers for SAW Magnetic Field Sensors. <i>Sensors</i> , 2021, 21, 8386.	3.8	3
4	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
5	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
6	Oxyhydride Nature of Rare-Earth-Based Photochromic Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1342-1348.	4.6	45
7	Nitrogen redistribution in annealed LaFeO _x N _y thin films investigated by FTIR spectroscopy and EELS mapping. <i>Applied Surface Science</i> , 2018, 427, 1041-1045.	6.1	3
8	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
9	GGR Biennial Critical Review: Analytical Developments Since 2014. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 493-562.	3.1	11
10	LaFeO _x N _y 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
11	Visualization of trace-element zoning in fluorapatite using BSE and CL imaging, and EPMA and ^{1/4} PIXE/ ^{1/4} PIGE mapping. <i>Mineralogy and Petrology</i> , 2016, 110, 809-821.	1.1	7
12	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
13	Defect-induced magnetism in SiC: Interplay between ferromagnetism and paramagnetism. <i>Physical Review B</i> , 2015, 92, .	3.2	31
14	Sub-pixel resolution with a color X-ray camera. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1890-1897.	3.0	18
15	Carbon p Electron Ferromagnetism in Silicon Carbide. <i>Scientific Reports</i> , 2015, 5, 8999.	3.3	38
16	Microstructural Studies of Fluorine-implanted Titanium Aluminides for Enhanced Environmental Durability. <i>Advanced Engineering Materials</i> , 2014, 16, 52-59.	3.5	7
17	Magnetic characterization and electrical field-induced switching of magnetite thin films synthesized by atomic layer deposition and subsequent thermal reduction. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 485001.	2.8	19
18	Structural and magnetic properties of irradiated SiC. <i>Journal of Applied Physics</i> , 2014, 115, 17C104.	2.5	12

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19	Disentangling defect-induced ferromagnetism in SiC. <i>Physical Review B</i> , 2014, 89, .	3.2	25
20	Oxygen depth profiling with subnanometre depth resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 337, 27-33.	1.4	4
21	Native Cu from the oceanic crust: Isotopic insights into native metal origin. <i>Chemical Geology</i> , 2013, 359, 136-149.	3.3	28
22	Resonance triplet at $E_{\pm} = 4.5 \text{ MeV}$ in the $^{40}\text{Ca}(\text{I}^{\pm}, \text{I}^3)^{44}\text{Ti}$ reaction. <i>Physical Review C</i> , 2013, 88, .	2.9	16
23	Mineralogical and geochemical investigation of seafloor massive sulfides from Panarea Platform (Aeolian Arc, Tyrrhenian Sea). <i>Chemical Geology</i> , 2013, 335, 136-148.	3.3	18
24	Atomic Layer Deposition of LiF Thin Films from Lithd and TiF ₄ Precursors. <i>Chemical Vapor Deposition</i> , 2013, 19, 111-116.	1.3	33
25	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
26	Study of amorphous lithium silicate thin films grown by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	2.1	39
27	Lithium Phosphate Thin Films Grown by Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , 2012, 159, A259-A263.	2.9	83
28	Synthesis, microstructure, and mechanical properties of YPd3B thin films. <i>Journal of Alloys and Compounds</i> , 2012, 540, 75-80.	5.5	7
29	High rate deposition of amorphous hydrogenated carbon films by hollow cathode arc PECVD. <i>Surface and Coatings Technology</i> , 2012, 212, 67-71.	4.8	12
30	Atomic Layer Deposition of Aluminum and Titanium Phosphates. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5920-5925.	3.1	31
31	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
32	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
33	Raising the temperâ€™ ^{1/4} -spot analysis of temper inclusions in experimental ceramics. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 291, 25-35.	1.5	1
34	Phase Segregation and Transformations in Arsenic-Implanted ZnO Thin Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8798-8807.	3.1	1
35	Iodine in alluvial platinumâ€™palladium nuggets: Evidence for biogenic precious-metal fixation. <i>Chemical Geology</i> , 2011, 281, 125-132.	3.3	40
36	MAX phase formation by intercalation upon annealing of TiC /Al (0.4 $\hat{\circ}$ 1/2 $\hat{\times}$ 1) bilayer thin films. <i>Acta Materialia</i> , 2011, 59, 6168-6175.	7.9	41

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37	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
38	Single crystal strontium titanate surface and bulk modifications due to vacuum annealing. Journal of Applied Physics, 2011, 110, .	2.5	29
39	Sculpting nanoscale precipitation patterns in nanocomposite thin films via hyperthermal ion deposition. Applied Physics Letters, 2010, 97, .	3.3	14
40	Nitrogen at the Si-nanocrystal and its influence on luminescence and interface defects. Physical Review B, 2010, 82, .	3.2	11
41	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
42	Native aluminum: Does it exist?. American Mineralogist, 2009, 94, 1283-1286.	1.9	9
43	ALD of YF ₃ Thin Films from TiF ₄ and Y(thd) ₃ Precursors. Chemical Vapor Deposition, 2009, 15, 27-32.	1.3	28
44	Morphology and Structure of C:Co, C:V, and C:Cu Nanocomposite Films. Plasma Processes and Polymers, 2009, 6, S902.	3.0	14
45	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
46	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
47	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
48	Native Sn ²⁺ Pb droplets in a zeolitic amygdale (Isle of Mull, Inner Hebrides). Geochimica Et Cosmochimica Acta, 2009, 73, 2907-2919.	3.9	1
49	Phase stability of AlYB ₁₄ sputtered thin films. Journal of Physics Condensed Matter, 2009, 21, 355006.	1.8	8
50	Study on Atomic Layer Deposition of Amorphous Rhodium Oxide Thin Films. Journal of the Electrochemical Society, 2009, 156, D418.	2.9	21
51	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
52	Atomic Layer Deposition of Iridium Oxide Thin Films from Ir(acac) ₃ and Ozone. Chemistry of Materials, 2008, 20, 2903-2907.	6.7	60
53	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
54	Focused electron beam induced deposition of pure SiO ₂ . , 2007, , .		6

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55	Film formation and characterization of anodic oxides on titanium for biomedical applications. Surface and Interface Analysis, 2006, 38, 182-185.	1.8	35
56	Direct writing of microtunnels using proton beam micromachining. Applied Surface Science, 2006, 252, 7343-7346.	6.1	8
57	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
58	Creating sub-surface channels in PMMA with ion beam lithography in only one step. Applied Surface Science, 2003, 217, 289-293.	6.1	19