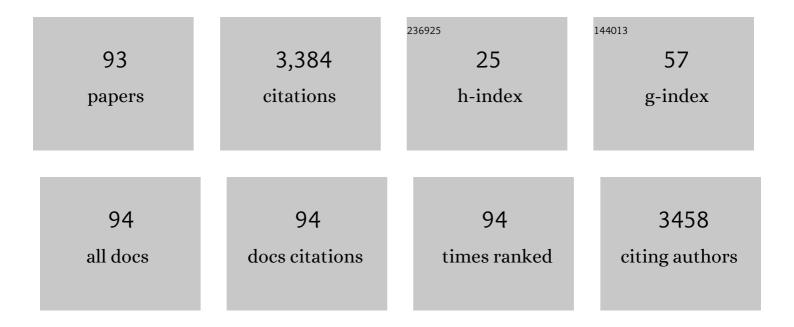
List of Publications by Year in descending order

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MICHAEL STÄNDMED

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Cathodic Protection of Mild Steel Using Aluminium-Based Alloys. Materials, 2022, 15, 1301. | 2.9 | 11 |
| 2 | Which factor determines the optical losses in refractory tungsten thin films at high temperatures?. Applied Surface Science, 2022, 588, 152927. | 6.1 | 5 |
| 3 | Structural degradation of tungsten sandwiched in hafnia layers determined by in-situ XRD up to 1520°C. Scientific Reports, 2021, 11, 3330. | 3.3 | 15 |
| 4 | Unprecedented Thermal Stability of Plasmonic Titanium Nitride Films up to 1400 °C. Advanced Optical Materials, 2021, 9, 2100323. | 7.3 | 34 |
| 5 | Optical Properties of the Refractory Metals at High Temperatures. , 2021, , . | | 0 |
| 6 | Thermal stability of tungsten based metamaterial emitter under medium vacuum and inert gas conditions. Scientific Reports, 2020, 10, 3605. | 3.3 | 34 |
| 7 | Spectrally selective emitters stable up to 1400.C for thermophotovoltaic applications. , 2020, , . | | 0 |
| 8 | Metamaterial emitter for thermophotovoltaics stable up to 1400 °C. Scientific Reports, 2019, 9, 7241. | 3.3 | 64 |
| 9 | The SASE1 X-ray beam transport system. Journal of Synchrotron Radiation, 2019, 26, 692-699. | 2.4 | 11 |
| 10 | High Temperature Optical Metamaterials. , 2019, , . | | 0 |
| 11 | Metrology of MID offset mirrors before and after coating. , 2019, , . | | 0 |
| 12 | Experimental study of EUV mirror radiation damage resistance under long-term free-electron laser exposures below the single-shot damage threshold. Journal of Synchrotron Radiation, 2018, 25, 77-84. | 2.4 | 16 |
| 13 | Mechanism of single-shot damage of Ru thin films irradiated by femtosecond extreme UV free-electron laser. Optics Express, 2018, 26, 19665. | 3.4 | 20 |
| 14 | Coatings for FEL optics: preparation and characterization of B4C and Pt. Journal of Synchrotron Radiation, 2018, 25, 116-122. | 2.4 | 16 |
| 15 | Contrasting behavior of covalent and molecular carbon allotropes exposed to extreme ultraviolet and soft x-ray free-electron laser radiation. Physical Review B, 2017, 96, . | 3.2 | 12 |
| 16 | Growth of nano-dots on the grazing incidence mirror surface under FEL irradiation: analytic approach to modeling. , 2017, , . | | 0 |
| 17 | Refractory absorber/emitter using monolayer of ceramic microparticles. , 2016, , . | | 1 |
| 18 | Neutron study of phospholipids 1-palmitoyl-2-oleoyl-sn-glycero-3-phospho-ethanolamine spray coating on titanium implants. Biointerphases, 2016, 11, 011002. | 1.6 | 2 |

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| 19 | Ultra-precision fabrication of 500 mm long and laterally graded Ru/C multilayer mirrors for X-ray light sources. Review of Scientific Instruments, 2016, 87, 051804. | 1.3 | 12 |
| 20 | Radiative engineering with refractory epsilon-near-zero metamaterials (Conference Presentation). , 2016, , . | | 0 |
| 21 | Controlling thermal emission with refractory epsilon-near-zero metamaterials via topological transitions. Nature Communications, 2016, 7, 11809. | 12.8 | 233 |
| 22 | Growth of nano-dots on the grazing-incidence mirror surface under FEL irradiation. Journal of Synchrotron Radiation, 2016, 23, 78-90. | 2.4 | 8 |
| 23 | Preparation and characterization of B ₄ C coatings for advanced research light sources. Journal of Synchrotron Radiation, 2016, 23, 50-58. | 2.4 | 19 |
| 24 | Time evolution of electron structure in femtosecond heated warm dense molybdenum. Physical Review B, 2015, 92, . | 3.2 | 20 |
| 25 | Fluence thresholds for grazing incidence hard x-ray mirrors. Applied Physics Letters, 2015, 106, . | 3.3 | 41 |
| 26 | Towards simultaneous measurements of electronic and structural properties in ultra-fast x-ray free electron laser absorption spectroscopy experiments. Scientific Reports, 2015, 4, 4724. | 3.3 | 23 |
| 27 | Trends on multilayer X-ray optics and scatterless pinholes. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s502-s502. | 0.1 | Ο |
| 28 | Comparative study of the X-ray reflectivity and in-depth profile of a-C, B ₄ C and Ni coatings at 0.1–2â€keV. Journal of Synchrotron Radiation, 2015, 22, 348-353. | 2.4 | 10 |
| 29 | Boron carbide coatings for neutron detection probed by x-rays, ions, and neutrons to determine thin film quality. Journal of Applied Physics, 2015, 117, 034901. | 2.5 | 28 |
| 30 | Tungsten band edge absorber/emitter based on a monolayer of ceramic microspheres. Optics Express, 2015, 23, A1236. | 3.4 | 22 |
| 31 | Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition. Surface and Coatings Technology, 2015, 269, 155-169. | 4.8 | 90 |
| 32 | On the characterization of ultra-precise X-ray optical components: advances and challenges in <i>exÂsitu</i> metrology. Journal of Synchrotron Radiation, 2014, 21, 968-975. | 2.4 | 59 |
| 33 | Preparation and characterization of x-ray mirrors with three single layers of a-C, B ₄ C, and Ni onto two 820-mm long Si substrate. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 34 | Results from single shot grazing incidence hard x-ray damage measurements conducted at the SACLA FEL. , 2013, , . | | 4 |
| 35 | Gold-silicon metamaterial with hyperbolic transition in near infrared. Applied Physics Letters, 2013, 103, . | 3.3 | 11 |
| 36 | GEM-based thermal neutron beam monitors for spallation sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 217-220. | 1.6 | 37 |

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| 37 | X-ray and neutron investigation of self-assembled lipid layers on a titanium surface. Biointerphases, 2013, 8, 21. | 1.6 | 17 |
| 38 | Performance of pulsed constant current silicate-based PEO coating on pure magnesium in simulated body fluid. Materials Letters, 2013, 106, 18-21. | 2.6 | 43 |
| 39 | Amorphous to crystalline phase transition in carbon induced by intense femtosecond x-ray free-electron laser pulses. Physical Review B, 2012, 86, . | 3.2 | 34 |
| 40 | Investigating the interaction of x-ray free electron laser radiation with grating structure. Optics Letters, 2012, 37, 3033. | 3.3 | 16 |
| 41 | The formation of Sr6.33Mg16.67Si13 in magnesium alloy AM50 and its effect on mechanical properties. Journal of Materials Science, 2012, 47, 5461-5469. | 3.7 | 2 |
| 42 | Interpretation of Glancing Angle and Bragg–Brentano XRD Measurements for CoCr Alloy and Austenitic Stainless Steel After PIII Nitriding. IEEE Transactions on Plasma Science, 2011, 39, 3056-3060. | 1.3 | 17 |
| 43 | Development of x-ray optics for advanced research light sources. Proceedings of SPIE, 2011, , . | 0.8 | 12 |
| 44 | Damage threshold of amorphous carbon mirror for 177eV FEL radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 635, S39-S42. | 1.6 | 9 |
| 45 | Picosecond time-resolved x-ray refectivity of a laser-heated amorphous carbon film. Applied Physics Letters, 2011, 98, 101909. | 3.3 | 11 |
| 46 | A preliminary study of calcium containing plasma electrolytic oxidation coatings on AM50 magnesium alloy. Journal of Materials Science, 2010, 45, 1406-1410. | 3.7 | 23 |
| 47 | Magnesium alloys as implant materials – Principles of property design for Mg–RE alloysâ~†. Acta Biomaterialia, 2010, 6, 1714-1725. | 8.3 | 503 |
| 48 | Effect of pulse frequency on the microstructure, phase composition and corrosion performance of a phosphate-based plasma electrolytic oxidation coated AM50 magnesium alloy. Applied Surface Science, 2010, 256, 3928-3935. | 6.1 | 116 |
| 49 | Characterization of calcium containing plasma electrolytic oxidation coatings on AM50 magnesium alloy. Applied Surface Science, 2010, 256, 4017-4022. | 6.1 | 85 |
| 50 | Single-layer mirrors for advanced research light sources. AIP Conference Proceedings, 2010, , . | 0.4 | 7 |
| 51 | Characterisation of tribological and corrosion behaviour of plasma electrolytic oxidation coated AM50 magnesium alloy. Surface Engineering, 2010, 26, 340-346. | 2.2 | 35 |
| 52 | Development of decorative and corrosion resistant plasma electrolytic oxidation coatings on AM50 magnesium alloy. Surface Engineering, 2010, 26, 367-370. | 2.2 | 31 |
| 53 | Spot size characterization of focused non-Gaussian X-ray laser beams. Optics Express, 2010, 18, 27836. | 3.4 | 88 |
| 54 | Damage of amorphous carbon induced by soft x-ray femtosecond pulses above and below the critical angle. Applied Physics Letters, 2009, 95, 031111. | 3.3 | 33 |

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| 55 | Effect of current density on the microstructure and corrosion behaviour of plasma electrolytic oxidation treated AM50 magnesium alloy. Applied Surface Science, 2009, 255, 4212-4218. | 6.1 | 199 |
| 56 | Different Underlying Corrosion Mechanism for Mg Bulk Alloys and Mg Thin Films. Plasma Processes and Polymers, 2009, 6, S690. | 3.0 | 13 |
| 57 | Electrochemical corrosion behaviour of plasma electrolytic oxidation coatings on AM50 magnesium alloy formed in silicate and phosphate based electrolytes. Electrochimica Acta, 2009, 54, 3842-3850. | 5.2 | 278 |
| 58 | Time-of-flight grazing incidence small angle neutron scattering on Gd nanowires. European Physical Journal: Special Topics, 2009, 167, 73-79. | 2.6 | 4 |
| 59 | Radiation damage to amorphous carbon thin films irradiated by multiple 46.9 nm laser shots below the single-shot damage threshold. Journal of Applied Physics, 2009, 105, . | 2.5 | 23 |
| 60 | Optical emission spectroscopy of various materials irradiated by soft x-ray free-electron laser. , 2009, , . | | 5 |
| 61 | Damage thresholds of various materials irradiated by 100-ps pulses of 21.2-nm laser radiation. , 2009, , . | | Ο |
| 62 | Correlation between texture and corrosion properties of magnesium coatings produced by PVD. Surface and Coatings Technology, 2008, 202, 2236-2240. | 4.8 | 28 |
| 63 | Three-dimensional microstructural analysis of Mg–Al–Zn alloys by synchrotron-radiation-based microtomography. Scripta Materialia, 2008, 58, 453-456. | 5.2 | 19 |
| 64 | Epitaxial growth of nickel on Si(100) by dc magnetron sputtering. Journal of Applied Physics, 2008, 104, | 2.5 | 12 |
| 65 | Single-layer and multilayer mirrors for current and next-generation light sources. Proceedings of SPIE, 2008, , . | 0.8 | 7 |
| 66 | Total reflection and multilayer optics for synchrotrons and free-electron lasers. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C182-C182. | 0.3 | 0 |
| 67 | Deposition and properties of novel microcrystalline Mg alloy coatings. Surface Engineering, 2007, 23, 339-343. | 2.2 | 6 |
| 68 | State-of-the-art Thin Film X-ray Optics for Conventional Synchrotrons and FEL Sources. AIP Conference Proceedings, 2007, , . | 0.4 | 0 |
| 69 | Corrosion Properties of Supersaturated Magnesium Alloy Systems. Materials Science Forum, 2007, 539-543, 1679-1684. | 0.3 | 11 |
| 70 | X-ray scattering from etched and coated multilayer gratings. Journal Physics D: Applied Physics, 2007, 40, 4253-4258. | 2.8 | 13 |
| 71 | State-of-the-art thin film X-ray optics for synchrotrons and FEL sources. , 2007, , . | | 0 |
| 72 | Capillary-discharge 46.9-nm laser-induced damage to a-C thin films exposed to multiple laser shots below single-shot damage threshold. , 2007, , . | | 2 |

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| 73 | Biodegradable magnesium–hydroxyapatite metal matrix composites. Biomaterials, 2007, 28, 2163-2174. | 11.4 | 570 |
| 74 | Influence of ion energy on morphology and corrosion properties of Mg alloys formed by energetic PVD processes. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 392-396. | 1.4 | 8 |
| 75 | Quantitative TEM characterizations of La/B4C and Mo/B4C ultrathin multilayer gratings by the geometric phase method. Microelectronic Engineering, 2007, 84, 454-459. | 2.4 | 7 |
| 76 | Structure and Corrosion of Magnetron Sputtered Pure Mg Films on Silicon Substrates. Plasma Processes and Polymers, 2007, 4, S557-S561. | 3.0 | 19 |
| 77 | Radiation damages to amorphous-carbon optical coatings. , 2005, , . | | 6 |
| 78 | TEM characterization of La/B4C multilayer systems by the geometric phase method. Physica Status Solidi A, 2005, 202, 2299-2308. | 1.7 | 7 |
| 79 | Investigations of large x-ray optics for free electron lasers. , 2004, , . | | 6 |
| 80 | Characterization of amorphous carbon films as total-reflection mirrors for XUV free-electron lasers. , 2002, , . | | 6 |
| 81 | <title>Laterally graded multilayer optics for x-ray analysis</title> . , 1999, 3767, 183. | | 36 |
| 82 | Study of laser-deposited metallic thin films by a combination of high-resolution ex situ and time-resolved in situ experiments. Applied Physics A: Materials Science and Processing, 1999, 69, S455-S457. | 2.3 | 6 |
| 83 | PAC measurements in laser deposited Ag/Fe and In/Fe alloys. Journal of Magnetism and Magnetic Materials, 1998, 189, 8-18. | 2.3 | 7 |
| 84 | Formation of Metallic Systems Far From Equilibrium By Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1997, 481, 575. | 0.1 | 2 |
| 85 | Structural properties of laser deposited metallic alloys and multilayers. Applied Surface Science, 1997, 109-110, 563-569. | 6.1 | 29 |
| 86 | Origin and avoidance of droplets during laser ablation of metals. Applied Surface Science, 1997, 109-110, 433-436. | 6.1 | 37 |
| 87 | Ar-ion irradiation of laser deposited Feî—,Ag thin films. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 503-506. | 1.4 | 5 |
| 88 | Structure of laser-deposited metallic alloys and multilayers. Thin Solid Films, 1996, 275, 18-21. | 1.8 | 7 |
| 89 | Structure of laser-deposited metallic alloys and multilayers. , 1996, , 18-21. | | 0 |
| 90 | Comparison of the structure of laser deposited and sputtered metallic alloys. Applied Surface Science, 1995, 86, 90-94. | 6.1 | 17 |

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| 91 | Comment on "Formation of CrystallineAgxNi1â^'xSolid Solutions of Unusually High Supersaturation by Laser Ablation Deposition". Physical Review Letters, 1995, 75, 3966-3966. | 7.8 | 7 |
| 92 | Structure of laser deposited metallic alloys. Journal of Applied Physics, 1995, 78, 7080-7087. | 2.5 | 40 |
| 93 | Structural changes during Ar-ion irradiation of laser-deposited Fe/Ag multilayers. Applied Physics A: Materials Science and Processing, 1995, 61, 591-594. | 2.3 | 1 |