# Mats Boman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5754861/publications.pdf

Version: 2024-02-01

| | | 567281 | 361022 |
|---|---|---|---|
| 37 | 1,325 | 15 | 35 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 37 | 37 | 37 | 2241 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Zinc oxide nanowires in chemical bath on seeded substrates: Role of hexamine. Journal of Sol-Gel Science and Technology, 2006, 39, 49-56. | 2.4 | 298 |
| 2 | Self-Supported Three-Dimensional Nanoelectrodes for Microbattery Applications. Nano Letters, 2009, 9, 3230-3233. | 9.1 | 226 |
| 3 | Lithium trapping in alloy forming electrodes and current collectors for lithium based batteries. Energy and Environmental Science, 2017, 10, 1350-1357. | 30.8 | 152 |
| 4 | Fabrication of High-Aspect-Ratio Prussian Blue Nanotubes Using a Porous Alumina Template. Nano Letters, 2005, 5, 1603-1606. | 9.1 | 119 |
| 5 | Microfabrication of threeâ€dimensional boron structures by laser chemical processing. Journal of Applied Physics, 1992, 72, 5956-5963. | 2.5 | 54 |
| 6 | Optical quantum confinement in low dimensional hematite. Journal of Materials Chemistry A, 2014, 2, 3352-3363. | 10.3 | 43 |
| 7 | Corrosion of copper in pure O 2 -free water?. Corrosion Science, 2018, 137, 1-12. | 6.6 | 42 |
| 8 | Fabrication of Well-Ordered High-Aspect-Ratio Nanopore Arrays in TiO2 Single Crystals. Nano Letters, 2006, 6, 1065-1068. | 9.1 | 40 |
| 9 | Morpho-structural and luminescent investigations of niobium activated yttrium tantalate powders. Journal of Alloys and Compounds, 2009, 471, 524-529. | 5.5 | 39 |
| 10 | Carbon growth by thermal laser-assisted chemical vapour deposition. Thin Solid Films, 1992, 215, 126-133. | 1.8 | 34 |
| 11 | Selective deposition of tungstenâ€"prediction of selectivity. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 2298-2302. | 2.1 | 31 |
| 12 | Freeâ€standing silicon microstructures fabricated by laser chemical processing. Journal of Applied Physics, 1993, 73, 7864-7871. | 2.5 | 29 |
| 13 | Inorganic fibers and microstructures directly from the vapor phase. Composites Science and Technology, 1994, 51, 193-212. | 7.8 | 27 |
| 14 | Ink-jet printed thin-film transistors with carbon nanotube channels shaped in long strips. Journal of Applied Physics, 2011, 109, 084915. | 2.5 | 20 |
| 15 | Dye-sensitized Solar Cells Employing a SnO2-TiO2 Core-shell Structure Made by Atomic Layer Deposition. Chimia, 2013, 67, 142. | 0.6 | 17 |
| 16 | Kinetics in thermal laser-assisted chemical vapour deposition of titanium carbide. Thin Solid Films, 1992, 218, 8-14. | 1.8 | 15 |
| 17 | Hyperbaric Laser Chemical Vapor Deposition of Carbon Fibers from the 1-Alkenes, 1-Alkynes, and Benzene. Journal of the American Chemical Society, 2006, 128, 4405-4413. | 13.7 | 14 |
| 18 | Chemical vapor deposition of TiN on a CoCrFeNi multi-principal element alloy substrate. Surface and Coatings Technology, 2020, 393, 125778. | 4.8 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Laser-assisted chemical vapor deposition of hard and refractory binary compounds. Surface and Coatings Technology, 1991, 49, 221-227. | 4.8 | 12 |
| 20 | Glutathione transferases immobilized on nanoporous alumina: Flow system kinetics, screening, and stability. Analytical Biochemistry, 2014, 446, 59-63. | 2.4 | 12 |
| 21 | Corrosion properties of CVD grown Ti(C,N) coatings in 3.5â€...wt-% NaCl environment. Corrosion Engineering Science and Technology, 2018, 53, 316-320. | 1.4 | 11 |
| 22 | Measurements of nanoparticle size distribution produced by laser ablation of tungsten and boron-carbide in N2 ambient. Applied Surface Science, 2006, 252, 4368-4372. | 6.1 | 9 |
| 23 | Suppression of boron incorporation at the early growth phases of boronâ€doped diamond thin films. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2595-2599. | 1.8 | 9 |
| 24 | Out-of-plane vibrations of quartz resonators used in quartz crystal microbalance measurements in gas phase. Sensors and Actuators A: Physical, 2006, 125, 143-147. | 4.1 | 8 |
| 25 | Kinetics and mechanisms in CVD of boron. Journal of Crystal Growth, 1989, 94, 171-181. | 1.5 | 7 |
| 26 | Laser-induced chemical vapour deposition of TiSi2: Aspects of deposition process, microstructure and resistivity. Thin Solid Films, 1991, 198, 279-292. | 1.8 | 7 |
| 27 | Phase Formation Behavior in Ultrathin Iron Oxide. Langmuir, 2015, 31, 12372-12381. | 3.5 | 7 |
| 28 | Luminescent thin films of nanocrystalline YTaO4:Nb by pulsed laser deposition. Thin Solid Films, 2008, 516, 8431-8435. | 1.8 | 6 |
| 29 | Kinetics of the low-pressure chemical vapor deposited tungsten nitride process using tungsten hexafluoride and ammonia precursors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, . | 2.1 | 6 |
| 30 | On the growth mechanism of UV laser deposited a-C:H from CH2I2 at room temperature. Applied Surface Science, 2001, 172, 200-206. | 6.1 | 4 |
| 31 | A flow-through nanoporous alumina trypsin bioreactor for mass spectrometry peptide fingerprinting. Journal of Proteomics, 2018, 172, 165-172. | 2.4 | 4 |
| 32 | Selective kinetic growth and role of local coordination in forming Al<sub>2</sub>TiO<sub>5</sub>-based coatings at lower temperatures. Materials Advances, 2021, 2, 5737-5751. | 5.4 | 4 |
| 33 | Low-pressure CVD of (Tix,W1-x)Ny from WF6, TiCl4 and NH3. Surface and Coatings Technology, 2022, 438, 128394. | 4.8 | 2 |
| 34 | Circumventing Thermodynamic Constraints in Nucleation-Controlled Crystallization of Al<sub>2</sub>TiO<sub>5</sub>-Based Chemical Vapor Deposition Coatings. Chemistry of Materials, 2022, 34, 5151-5164. | 6.7 | 2 |
| 35 | On â€œhow to start a fireâ€ or transverse forced-convection, hyperbaric laser chemical vapor deposition of fibers and textiles. Textile Reseach Journal, 2014, 84, 1976-1986. | 2.2 | 1 |
| 36 | Laser chemical etching of Cu2O. Applied Surface Science, 1995, 86, 543-547. | 6.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Demonstration of Microcoil Heaters for Microthrusters. Journal of Propulsion and Power, 2007, 23, 881-884. | 2.2 | 0 |