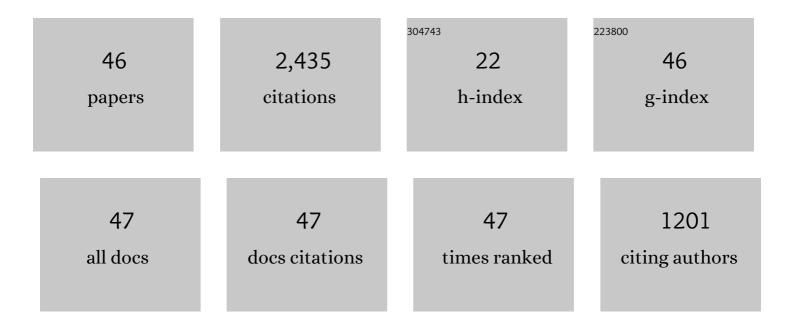
Siegfried Hofmann

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Quantitative depth profiling in surface analysis: A review. Surface and Interface Analysis, 1980, 2, 148-160. | 1.8 | 292 |
| 2 | Preferential sputtering of oxides: A comparison of model predictions with experimental data. Applied Surface Science, 1986, 27, 355-365. | 6.1 | 245 |
| 3 | Thermodynamics and structural aspects of grain boundary segregation. Critical Reviews in Solid State and Materials Sciences, 1995, 20, 1-85. | 12.3 | 226 |
| 4 | Atomic mixing, surface roughness and information depth in high-resolution AES depth profiling of a GaAs/AlAs superlattice structure. Surface and Interface Analysis, 1994, 21, 673-678. | 1.8 | 170 |
| 5 | Evaluation of concentration-depth profiles by sputtering in SIMS and AES. Applied Physics Berlin, 1976, 9, 59-66. | 1.4 | 151 |
| 6 | Practical surface analysis: state of the art and recent developments in AES, XPS, ISS and SIMS. Surface and Interface Analysis, 1986, 9, 3-20. | 1.8 | 106 |
| 7 | Compositional depth profiling by sputtering. Progress in Surface Science, 1991, 36, 35-87. | 8.3 | 101 |
| 8 | Depth resolution and surface roughness effects in sputter profiling of NiCr multilayer sandwich samples using Auger electron spectroscopy. Thin Solid Films, 1977, 43, 275-283. | 1.8 | 98 |
| 9 | Approaching the limits of high resolution depth profiling. Applied Surface Science, 1993, 70-71, 9-19. | 6.1 | 81 |
| 10 | Ultimate depth resolution and profile reconstruction in sputter profiling with AES and SIMS. Surface and Interface Analysis, 2000, 30, 228-236. | 1.8 | 76 |
| 11 | The statistical sputtering contribution to resolution in concentration-depth profiles. Thin Solid Films, 1981, 81, 239-246. | 1.8 | 74 |
| 12 | From depth resolution to depth resolution function: refinement of the concept for delta layers, single layers and multilayers. Surface and Interface Analysis, 1999, 27, 825-834. | 1.8 | 74 |
| 13 | Thermodynamics of Grain Boundary Segregation and Applications to Anisotropy, Compensation Effect and Prediction. Critical Reviews in Solid State and Materials Sciences, 2008, 33, 133-163. | 12.3 | 64 |
| 14 | Cascade mixing limitations in sputter profiling. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1992, 10, 316. | 1.6 | 63 |
| 15 | Interlaboratory comparison of the depth resolution in sputter depth profiling of Ni/Cr multilayers with and without sample rotation using AES, XPS, and SIMS. Surface and Interface Analysis, 1993, 20, 621-626. | 1.8 | 61 |
| 16 | Characterization of nanolayers by sputter depth profiling. Applied Surface Science, 2005, 241, 113-121. | 6.1 | 42 |
| 17 | Determination of the atomic mixing layer in sputter profiling of Ta/Si multilayers by TEM and AES. Surface and Interface Analysis, 1990, 15, 794-796. | 1.8 | 40 |
| 18 | Applied Thermodynamics: Grain Boundary Segregation. Entropy, 2014, 16, 1462-1483. | 2.2 | 38 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Determination and application of the depth resolution function in sputter profiling with secondary ion mass spectroscopy and Auger electron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1096-1102. | 2.1 | 35 |
| 20 | Analytical and numerical depth resolution functions in sputter profiling. Applied Surface Science, 2014, 314, 942-955. | 6.1 | 25 |
| 21 | Redeposition in AES sputter depth profiling of multilayer Cr/Ni thin films. Surface and Interface Analysis, 1988, 12, 83-86. | 1.8 | 24 |
| 22 | Depth Resolution and Quantitative Evaluation of AES Sputtering Profiles. Topics in Current Physics, 1984, , 141-158. | 0.5 | 24 |
| 23 | Sputter depth profiling: past, present, and future. Surface and Interface Analysis, 2014, 46, 654-662. | 1.8 | 22 |
| 24 | Interstitial and substitutional solute segregation at individual grain boundaries of <i>α</i> -iron: data revisited. Journal of Physics Condensed Matter, 2016, 28, 064001. | 1.8 | 22 |
| 25 | Determination of the Depth Scale in Sputter Depth Profiling. Journal of Surface Analysis (Online), 2002, 9, 306-309. | 0.1 | 22 |
| 26 | Depth resolution and preferential sputtering in depth profiling of sharp interfaces. Applied Surface Science, 2017, 410, 354-362. | 6.1 | 21 |
| 27 | Entropy matters in grain boundary segregation. Acta Materialia, 2021, 206, 116597. | 7.9 | 21 |
| 28 | Quantitative reconstruction of the GDOES sputter depth profile of a monomolecular layer structure of thiourea on copper. Applied Surface Science, 2015, 331, 140-149. | 6.1 | 19 |
| 29 | Original and sputtering induced interface roughness in AES sputter depth profiling of SiO 2 /Ta 2 O 5 multilayers. Thin Solid Films, 1999, 355-356, 390-394. | 1.8 | 17 |
| 30 | Depth resolution in sputter profiling revisited. Surface and Interface Analysis, 2016, 48, 1354-1369. | 1.8 | 17 |
| 31 | Influence of nonstationary atomic mixing on depth resolution in sputter depth profiling. Surface and Interface Analysis, 2012, 44, 569-572. | 1.8 | 16 |
| 32 | Influence of non-Gaussian roughness on sputter depth profiles. Applied Surface Science, 2013, 276, 447-453. | 6.1 | 16 |
| 33 | Quantitative comparison between Auger electron spectroscopy and secondary ion mass spectroscopy depth profiles of a double layer structure of AlAs in GaAs using the mixing-roughness-information depth model. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1111-1115. | 2.1 | 15 |
| 34 | Quantitative AES depth profiling of a Ge/Si multilayer structure. Surface and Interface Analysis, 2002, 33, 461-471. | 1.8 | 15 |
| 35 | Backscattering effect in quantitative AES sputter depth profiling of multilayers. Surface and Interface Analysis, 2007, 39, 787-797. | 1.8 | 15 |
| 36 | Preferential sputtering effects in depth profiling of multilayers with SIMS, XPS and AES. Applied Surface Science, 2019, 483, 140-155. | 6.1 | 14 |

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|----|--|-----|-----------|
| 37 | The Significance of Entropy in Grain Boundary Segregation. Materials, 2019, 12, 492. | 2.9 | 14 |
| 38 | Ultrahigh Resolution in Sputter Depth Profiling with Auger Electron Spectroscopy Using Ionized SF6 Molecules as Primary Ions. Japanese Journal of Applied Physics, 1998, 37, L758-L760. | 1.5 | 12 |
| 39 | An analytical depth resolution function for the MRI model. Surface and Interface Analysis, 2013, 45, 1659-1660. | 1.8 | 10 |
| 40 | Quantitative Compositional Depth Profiling. Springer Series in Surface Sciences, 2013, , 297-408. | 0.3 | 8 |
| 41 | Quantitative reconstruction of Ta/Si multilayer depth profiles obtained by Time-of-Flight-Secondary-Ion-Mass-Spectrometry (ToF-SIMS) using Cs+ ion sputtering. Thin Solid Films, 2015, 591, 60-65. | 1.8 | 8 |
| 42 | Depth resolution and preferential sputtering in depth profiling of delta layers. Applied Surface Science, 2018, 455, 1045-1056. | 6.1 | 8 |
| 43 | Structural surface phase transitions during segregation competition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1493-1496. | 2.1 | 4 |
| 44 | Correlation of depth resolution and preferential sputtering in depth profiles of thin layers by Secondary Ion Mass Spectrometry (SIMS). Thin Solid Films, 2018, 662, 165-167. | 1.8 | 3 |
| 45 | Prediction and experimental determination of the layer thickness in SIMS depth profiling of Ge/Si multilayers: Effect of preferential sputtering and atomic mixing. Applied Surface Science, 2019, 481, 1103-1108. | 6.1 | 3 |
| 46 | Artifacts in multilayer depth profiling: Origin and quantification of a double peak layer profile of Ag in ToF-SIMS depth profiles of an Ag/Ni multilayer. Materials Characterization, 2021, 171, 110774. | 4.4 | 2 |