

# Paul Wynblatt

## List of Publications by Year in descending order

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139  
papers

5,808  
citations

81839

39  
h-index

82499

72  
g-index

140  
all docs

140  
docs citations

140  
times ranked

3287  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The dependence of ostwald ripening kinetics on particle volume fraction. <i>Acta Metallurgica</i> , 1979, 27, 489-497.  | 2.1 | 485       |
| 2  | Surface energy and solute strain energy effects in surface segregation. <i>Surface Science</i> , 1977, 65, 511-531.   | 0.8 | 398       |
| 3  | Supported metal crystallites. <i>Progress in Solid State Chemistry</i> , 1975, 9, 21-58.  | 3.9 | 330       |
| 4  | A review of wetting versus adsorption, complexions, and related phenomena: the rosetta stone of wetting. <i>Journal of Materials Science</i> , 2013, 48, 5681-5717.             | 1.7 | 238       |
| 5  | Particle growth in model supported metal catalystsâ€™I. Theory. <i>Acta Metallurgica</i> , 1976, 24, 1165-1174.   | 2.1 | 228       |
| 6  | The distribution of internal interfaces in polycrystals. <i>International Journal of Materials Research</i> , 2004, 95, 197-214.  | 0.8 | 198       |
| 7  | Calcium Segregation to a Magnesium Oxide (100) Surface. <i>Journal of the American Ceramic Society</i> , 1983, 66, 111-117.   | 1.9 | 165       |
| 8  | The chemisorption of CO and NO on Rh(110). <i>Surface Science</i> , 1980, 97, 346-362.  | 0.8 | 144       |
| 9  | Anisotropy of segregation at grain boundaries and surfaces. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 2595-2620. | 1.1 | 144       |
| 10 | A calculation of relaxation, migration and formation energies for surface defects in copper. <i>Surface Science</i> , 1968, 12, 109-127.  | 0.8 | 116       |
| 11 | Particle growth in model supported metal catalystsâ€™II. Comparison of experiment with theory. <i>Acta Metallurgica</i> , 1976, 24, 1175-1182.                                  | 2.1 | 97        |
| 12 | A Monte Carlo study of surface segregation in alloys. <i>Surface Science</i> , 1975, 52, 569-587.   | 0.8 | 89        |
| 13 | Equilibrium segregation and interfacial energy in multicomponent systems. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 771-778.   | 1.9 | 84        |
| 14 | The effect of stress on grain boundary grooving. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 3541-3547.  | 1.9 | 83        |
| 15 | Experimental evidence for a wetting transition in liquid Gaâ€–Pb alloys. <i>Surface Science</i> , 1996, 345, 85-90.   | 0.8 | 79        |
| 16 | Equilibrium Shape of Copper Crystals Grown on Sapphire. <i>Journal of Materials Science</i> , 2004, 12, 7-18.   | 1.2 | 79        |
| 17 | Development of glue-type potentials for the Alâ€–Pb system: phase diagram calculation. <i>Acta Materialia</i> , 2000, 48, 1753-1761.  | 3.8 | 77        |
| 18 | Thermal nitridation of Si(111) by nitric oxide. <i>Journal of Vacuum Science and Technology</i> , 1981, 18, 965-970.  | 1.9 | 74        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A calculation of migration energies and binding energies for tungsten adatoms on tungsten surfaces. <i>Surface Science</i> , 1970, 22, 125-136.   | 0.8 | 68        |
| 20 | Habits of Grains in Dense Polycrystalline Solids. <i>Journal of the American Ceramic Society</i> , 2004, 87, 724-726.   | 1.9 | 68        |
| 21 | Calculation of the vacancy migration energy in cubic crystals. <i>Journal of Physics and Chemistry of Solids</i> , 1968, 29, 215-224.   | 1.9 | 61        |
| 22 | Capillary instabilities in thin films: A model of thermal pitting at grain boundary vertices. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 3239-3248.   | 1.9 | 61        |
| 23 | Grain boundary segregation in oxide ceramics. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2841-2848.   | 2.8 | 61        |
| 24 | Diffusion mechanisms in ordered body-centered cubic alloys. <i>Acta Metallurgica</i> , 1967, 15, 1453-1460.   | 2.1 | 57        |
| 25 | Solid-state wetting transitions at grain boundaries. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 495, 119-125.  | 2.6 | 55        |
| 26 | Computer simulation of phase transitions associated with surface miscibility gaps. <i>Surface Science</i> , 1990, 240, 245-252.   | 0.8 | 54        |
| 27 | The role of electrochemical migration and moisture adsorption on the reliability of metallized ceramic substrates. <i>Journal of Electronic Materials</i> , 1989, 18, 339-353.  | 1.0 | 53        |
| 28 | The effects of prewetting and wetting transitions on the surface energy of liquid binary alloys. <i>Acta Materialia</i> , 1998, 46, 2337-2347.  | 3.8 | 53        |
| 29 | High-resolution electron microscopy and image simulation of $\text{Ti}_2\text{T}$ , $\text{Ti}$ , and $\text{H}$ -niobia and model silica-supported niobium surface oxides. <i>Chemistry of Materials</i> , 1989, 1, 187-193.           | 3.2 | 51        |
| 30 | The equilibrium form of pure gold crystals. <i>Surface Science</i> , 1998, 398, 259-266.  | 0.8 | 50        |
| 31 | Step energetics of $\text{Pb}(111)$ vicinal surfaces from facet shape. <i>Surface Science</i> , 1999, 424, 271-277.   | 0.8 | 49        |
| 32 | Water Adsorption and Surface Conductivity Measurements on $\alpha$ -Alumina Substrates. <i>IEEE Transactions on Components, Hybrids and Manufacturing Technology</i> , 1987, 10, 247-251.   | 0.4 | 48        |
| 33 | On the existence of surface miscibility gaps in $\text{Cu}-\text{Ag}$ alloys. <i>Surface Science</i> , 1991, 241, L21-L24.  | 0.8 | 48        |
| 34 | Orientation relationships of copper crystals on c-plane sapphire. <i>Acta Materialia</i> , 2011, 59, 5320-5331.   | 3.8 | 47        |
| 35 | Study of a surface critical phenomenon associated with surface segregation in $\text{Cu}-\text{Ag}$ alloys. <i>Surface Science</i> , 1993, 290, 335-344.  | 0.8 | 46        |
| 36 | A determination of interfacial energy and interfacial composition in $\text{Cu}-\text{Pb}$ and $\text{Cu}-\text{Pb}-\text{X}$ alloys by solid state wetting measurements. <i>Acta Metallurgica Et Materialia</i> , 1993, 41, 3331-3340. | 1.9 | 44        |

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|----|--|-----|-----------|
| 37 | Surface segregation in a Ni-1 at% Pd alloy. <i>Surface Science</i> , 1979, 82, 79-92.  | 0.8 | 43        |
| 38 | A model study of catalyst particle coarsening. <i>Scripta Metallurgica</i> , 1973, 7, 969-975.   | 1.2 | 41        |
| 39 | SO <sub>2</sub> adsorption on Rh(110) and Pt(110) surfaces. <i>Applications of Surface Science</i> , 1981, 8, 250-259.   | 1.0 | 41        |
| 40 | Monte Carlo simulation of the Cu–Ag (001) semicoherent interphase boundary. <i>Acta Metallurgica Et Materialia</i> , 1990, 38, 177-184.  | 1.9 | 41        |
| 41 | Study of a wetting-related adsorption transition in the Ga–Pb system. <i>Surface Science</i> , 1998, 415, 336-345.   | 0.8 | 41        |
| 42 | A Monte Carlo study of the structure and composition of (001) semicoherent interphase boundaries in Cu–Ag–Au alloys. <i>Acta Metallurgica Et Materialia</i> , 1991, 39, 2681-2691. | 1.9 | 40        |
| 43 | Computer simulation of surface segregation in ternary alloys. <i>Computational Materials Science</i> , 1999, 15, 250-263.  | 1.4 | 39        |
| 44 | Correlation of Grain Boundary Character with Wetting Behavior. <i>Journal of Materials Science</i> , 2001, 9, 265-273.   | 1.2 | 38        |
| 45 | Scanning tunneling microscopy of equilibrium crystal shapes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998, 16, 1059-1065.                  | 0.9 | 34        |
| 46 | Pseudopartial Wetting and Precursor Film Growth in Immiscible Metal Systems. <i>Langmuir</i> , 2004, 20, 402-408.  | 1.6 | 34        |
| 47 | Anisotropy of surface composition in a Ni-Au alloy. <i>Surface Science</i> , 1985, 155, 79-100.  | 0.8 | 33        |
| 48 | Relation between grain boundary segregation and grain boundary character in FCC alloys. <i>Journal of Materials Science</i> , 2005, 40, 2765-2773.                                 | 1.7 | 33        |
| 49 | Two-dimensional phase transitions associated with surface miscibility gaps. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1992, 10, 2709-2717.   | 0.9 | 32        |
| 50 | Continuous and discontinuous transitions on 3D equilibrium crystal shapes: a new look at Pb and Au. <i>Surface Science</i> , 2001, 481, 13-24.                                     | 0.8 | 32        |
| 51 | Effects of Nb Doping and Segregation on the Grain Boundary Plane Distribution in TiO <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , 2006, 89, 666-671.            | 1.9 | 32        |
| 52 | Effects of concentration dependent diffusivity on the growth of precursing films of Pb on Cu(111). <i>Surface Science</i> , 2001, 488, 73-82.                                      | 0.8 | 31        |
| 53 | Development of Finnis–Sinclair type potentials for Pb, Pb–Bi, and Pb–Ni systems: application to surface segregation. <i>Acta Materialia</i> , 1998, 46, 3027-3032.                 | 3.8 | 30        |
| 54 | On the formation and migration entropies of vacancies in metals. <i>Journal of Physics and Chemistry of Solids</i> , 1969, 30, 2201-2211.  | 1.9 | 29        |

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|----|--|-----|-----------|
| 55 | A Calculation of the Formation and Migration Entropies of Surface Defects in Copper. Physica Status Solidi (B): Basic Research, 1969, 36, 797-808.                               | 0.7 | 29        |
| 56 | Equilibrium surface composition of ternary alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1989, 20, 215-223.                    | 1.4 | 29        |
| 57 | Computer simulation of Pb/Al interfaces. Acta Materialia, 2000, 48, 2557-2563.   | 3.8 | 28        |
| 58 | The effects of interfacial segregation on wetting in solid metal-on-metal and metal-on-ceramic systems. Acta Materialia, 2000, 48, 4439-4447.                                    | 3.8 | 28        |
| 59 | Equilibrium crystal shape of Bi-saturated Cu crystals at 1223K. Acta Materialia, 2005, 53, 4057-4064.  | 3.8 | 28        |
| 60 | Correlation Between Grain-Boundary Segregation and Grain-Boundary Plane Orientation in Nb-Doped TiO <sub>2</sub> . Journal of the American Ceramic Society, 2005, 88, 2286-2291. | 1.9 | 28        |
| 61 | Simulation of spreading of precursing Ag films on Ni(). Computational Materials Science, 2002, 25, 503-509.  | 1.4 | 27        |
| 62 | Equilibrium interphase interfaces and premelting of the Pb(110) surface. Physical Review B, 1995, 51, 10972-10980.   | 1.1 | 26        |
| 63 | Melting behavior of nanosized lead particles embedded in an aluminum matrix. Acta Materialia, 2004, 52, 2305-2316.   | 3.8 | 25        |
| 64 | Modeling grain boundary and surface segregation in multicomponent high-entropy alloys. Physical Review Materials, 2019, 3, .   | 0.9 | 24        |
| 65 | Nucleation of two-dimensional phases on the (111) surface of Cu-Ag alloys. Surface Science, 1994, 310, 27-33.  | 0.8 | 23        |
| 66 | Equilibrium form of Pb Bi Ni alloy crystals. Journal of Crystal Growth, 1997, 173, 513-527.  | 0.7 | 23        |
| 67 | Surface segregation in a dilute copper-silver alloy. Journal of Materials Research, 1986, 1, 646-651.  | 1.2 | 22        |
| 68 | Electrochemical Examination of Dendritic Growth on Electronic Devices in HCl Electrolytes. Corrosion, 1990, 46, 665-671.   | 0.5 | 22        |
| 69 | Modification of the gold/graphite interfacial energy by interfacial adsorption of nickel. Journal of Materials Science, 1995, 30, 94-100.  | 1.7 | 22        |
| 70 | Scanning tunneling microscopy of equilibrium crystal shape of Pb particles: test of universality. Surface Science, 1998, 417, L160-L165.   | 0.8 | 22        |
| 71 | Effect of Segregating Impurities on the Grain-Boundary Character Distribution of Magnesium Oxide. Journal of the American Ceramic Society, 2009, 92, 3044-3051.                  | 1.9 | 22        |
| 72 | Vacancy relaxation in cubic crystals. Journal of Physics and Chemistry of Solids, 1967, 28, 2108-2110.   | 1.9 | 21        |

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|----|---|-----|-----------|
| 73 | Flatness and shape of (111) facets of equilibrated Pb crystals. <i>Physical Review B</i> , 1997, 56, 12131-12134.   | 1.1 | 21        |
| 74 | Study of a wetting-related adsorption transition in the Ga-Pb system: 2. Surface composition measurements of Ga-rich liquids. <i>Surface Science</i> , 1998, 415, 346-350.                            | 0.8 | 21        |
| 75 | Wetting and energetics of solid Au and Au-Ge/SiC interfaces. <i>Acta Materialia</i> , 1998, 46, 4853-4859.  | 3.8 | 20        |
| 76 | Correlation of Grain Boundary Character with Wetting Behavior. <i>Journal of Materials Science</i> , 2000, 8, 351-361.  | 1.2 | 20        |
| 77 | Summary Abstract: The segregation of gold at copper/silver interphase boundaries. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 1746-1747.                 | 0.9 | 19        |
| 78 | Surface composition of dilute Cu-Ag alloys: A comparison between experiment and Monte Carlo modeling. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1991, 9, 27-31. | 0.9 | 19        |
| 79 | Wetting and prewetting transitions in Ga-Pb alloys. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1998, 102, 1142-1150.   | 0.9 | 19        |
| 80 | Step-step interactions and universal exponents studied via three-dimensional equilibrium crystal shapes. <i>New Journal of Physics</i> , 2002, 4, 60-60.  | 1.2 | 19        |
| 81 | The effects of prewetting and wetting transitions on the surface energy of liquid binary alloys. <i>Acta Materialia</i> , 1998, 46, 2337-2347.  | 3.8 | 19        |
| 82 | Coarsening kinetics of platinum particles on oxide substrates. <i>Acta Metallurgica</i> , 1981, 29, 921-929.  | 2.1 | 18        |
| 83 | Modeling the growth of dendrite-like gold islands on graphite substrates. <i>Journal of Crystal Growth</i> , 1990, 102, 618-628.  | 0.7 | 18        |
| 84 | Interfacial Segregation Effects in Wetting Phenomena. <i>Annual Review of Materials Research</i> , 2008, 38, 173-196.   | 4.3 | 18        |
| 85 | Copper crystals on the (110) sapphire plane: orientation relationships, triple line ridges and interface shape equilibrium. <i>Journal of Materials Science</i> , 2013, 48, 3013-3026.                | 1.7 | 18        |
| 86 | Surface composition of ternary Cu-Ag-Au alloys: part i. experimental results. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1991, 22, 1833-1840.    | 1.4 | 17        |
| 87 | Observation of a Sharp Transition in Contact Angle in the Wetting of Graphite by Solid Pb-Ni Alloys. <i>Journal of Materials Science</i> , 1999, 7, 173-180.  | 1.2 | 17        |
| 88 | Wetting-related adsorption transitions in liquid Ga-Tl alloys. <i>Surface Science</i> , 2001, 476, L273-L277.   | 0.8 | 17        |
| 89 | Electrochemical Migration of Copper in Adsorbed Moisture Layers. <i>Corrosion</i> , 1989, 45, 643-648.  | 0.5 | 14        |
| 90 | Wetting in Multiphase Systems with Complex Geometries. <i>Journal of Materials Science</i> , 2001, 9, 191-197.  | 1.2 | 14        |

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|-----|---|-----|-----------|
| 91  | Some aspects of the anisotropy of grain boundary segregation and wetting. Journal of Materials Science, 2006, 41, 7760-7768.  | 1.7 | 14        |
| 92  | Computer Simulations of Epitaxial Interfaces. Materials Research Society Symposia Proceedings, 1988, 141, 399.  | 0.1 | 13        |
| 93  | Observations of a two-dimensional compositional phase transition at the surface of a polycrystalline Pb <sub>1-x</sub> Bi <sub>x</sub> Ni alloy. Surface Science, 1994, 302, 179-184.                                   | 0.8 | 13        |
| 94  | Energy of the Pb{111}-Al{111} interface. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 1003-1007.  | 1.1 | 13        |
| 95  | The Structure and Composition of Interphase Boundaries in Ni/Ag-(001) Thin Films Doped with Au. Materials Research Society Symposia Proceedings, 1985, 56, 189.   | 0.1 | 12        |
| 96  | Segregation to the (100) surface of dilute Cu <sup>δ</sup> Ag alloys. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 255-257.  | 0.9 | 12        |
| 97  | A model of compositional surface phase transitions in ternary alloys. Surface Science, 1996, 364, 409-416.  | 0.8 | 12        |
| 98  | Impact of surface phase transitions and structure on surface diffusion profiles of Pb and Bi over Cu(100). Surface Science, 2006, 600, 1265-1276.   | 0.8 | 12        |
| 99  | Surface segregation in multicomponent high entropy alloys: Atomistic simulations versus a multilayer analytical model. Computational Materials Science, 2021, 187, 110101.  | 1.4 | 12        |
| 100 | Chemical Aspects of Equilibrium Segregation to Ceramic Interfaces. , 1981, , 83-95.   |     | 12        |
| 101 | The effect of particle size on the surface composition of microcrystalline alloys. Surface Science, 1985, 160, 475-491.   | 0.8 | 11        |
| 102 | Surface energy, adsorption, and wetting transitions in ternary liquid alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 2851-2858.                               | 1.1 | 11        |
| 103 | Importance of interfacial step alignment in hetero-epitaxy and orientation relationships: the case of Ag equilibrated on Ni substrates. Part 1 computer simulations. Journal of Materials Science, 2015, 50, 5262-5275. | 1.7 | 11        |
| 104 | Importance of interfacial step alignment in hetero-epitaxy and orientation relationships: the case of Ag equilibrated on Ni substrates. Part 2 experiments. Journal of Materials Science, 2015, 50, 5276-5285.          | 1.7 | 11        |
| 105 | Summary Abstract: The elastic properties and the reconstruction of Au and Pt (011) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 766-767.                                  | 0.9 | 10        |
| 106 | Anisotropic phenomena at interfaces in bismuth <sup>δ</sup> -saturated copper. Scripta Materialia, 2004, 50, 565-569.   | 2.6 | 10        |
| 107 | Epitaxy for Weakly Interacting Systems of Large Misfit. Materials Research Society Symposia Proceedings, 1987, 94, 111.   | 0.1 | 9         |
| 108 | A study of the Pb/Al (100) interfacial energy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2569-2572.  | 1.1 | 9         |

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|-----|--|-----|-----------|
| 109 | Combination of a Besocke-type scanning tunneling microscope with a scanning electron microscope. Review of Scientific Instruments, 2001, 72, 3546-3551.  | 0.6 | 8         |
| 110 | Anisotropy of Segregation at Grain Boundaries and Surfaces. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 438-439.  | 1.1 | 8         |
| 111 | Effects of anisotropy on the equilibrium shape of nanoscale pores at grain boundaries. Acta Materialia, 2013, 61, 4572-4580.   | 3.8 | 8         |
| 112 | Surface composition of ternary cu-ag-au alloys: part ii. a comparison of experiment with theoretical models. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 1841-1848.  | 1.4 | 7         |
| 113 | Summary Abstract: Anisotropy of equilibrium surface composition of alloys. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 1224-1225.   | 0.9 | 6         |
| 114 | Calibration of Auger spectra and equilibrium surface composition in a dilute copper-gold alloy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 2253-2259.  | 0.9 | 6         |
| 115 | The effects of Tl additions on a wetting-related adsorption transition in liquid Ga-Pb alloys. Surface Science, 2000, 465, 97-102.   | 0.8 | 6         |
| 116 | Origin of an unusual systematic variation in the heteroepitaxy of Ag-Ni - The roles of twinning and step alignment. Acta Materialia, 2019, 168, 121-132.   | 3.8 | 5         |
| 117 | Heteroepitaxy of FCC-on-FCC systems of large misfit. Acta Materialia, 2022, 225, 117550.   | 3.8 | 5         |
| 118 | The shapes of two-phase particles: The case of trapped voids in lead particles embedded in silicon. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 1873-1886.  | 0.7 | 4         |
| 119 | An Auger microscopy study of the meeting and interdiffusion of pure Pb and Bi adsorbed layers on polycrystalline Cu. Surface Science, 2005, 575, 69-74.  | 0.8 | 4         |
| 120 | Two-dimensional versus three-dimensional constraints in hetero-epitaxy/orientation relationships. Journal of Materials Science, 2017, 52, 9630-9639.   | 1.7 | 4         |
| 121 | Two-Dimensional Phase Transitions Associated with a Surface Miscibility Gap in Cu-Ag Alloys. Materials Research Society Symposia Proceedings, 1990, 202, 421.  | 0.1 | 3         |
| 122 | Influence of Segregation Effects on the Energies of Lead/Graphite and Gold/Graphite Interfaces. Materials Research Society Symposia Proceedings, 1993, 318, 393.   | 0.1 | 3         |
| 123 | On the relation between the anisotropies of grain boundary segregation and grain boundary energy. International Journal of Materials Research, 2005, 96, 1142-1146.  | 0.8 | 3         |
| 124 | Factors Affecting the Coverage Dependence of the Diffusivity of One Metal over the Surface of Another. International Journal of Thermophysics, 2007, 28, 646-660.  | 1.0 | 3         |
| 125 | Growth and orientation relationships for Ni and Cu films annealed on slightly miscut $\text{Cu(111)}$ surfaces.<br><small>xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll" &gt; &lt;mml:mrow&gt; &lt;mml:mo stretchy="false"&gt; (&lt;/mml:mo&gt; &lt;mml:mn&gt;1&lt;/mml:mn&gt; &lt;mml:mpace width="5.0pt") Tj ETQq1 1 0.784314 rgBT /Oværløck 10 T f 50 97 T</small> |     |           |
| 126 | Summary Abstract: Study of niobia-silica interfacial phenomena with model thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 1694-1695.  | 0.9 | 2         |

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|-----|---|-----|-----------|
| 127 | A Survey of Segregation at Interphase Boundaries in Ternary Ni-Ag-X Alloys. Materials Research Society Symposia Proceedings, 1990, 205, 369.                        | 0.1 | 2         |
| 128 | Interdiffusion of adsorbed Pb and Bi on Cu(100). Surface Science, 2007, 601, 1101-1107.   | 0.8 | 2         |
| 129 | Monte Carlo Modeling of Interphase Boundaries in Cu-Ag and Cu-Ag-Au Alloys. Materials Research Society Symposia Proceedings, 1990, 205, 375.                        | 0.1 | 1         |
| 130 | On the existence of surface miscibility gaps in Cu—Ag alloys. Surface Science Letters, 1991, 241, L21-L24.  | 0.1 | 1         |
| 131 | Molecular Dynamics Study of Disordering and Premelting of the Pb(110) Surface. Materials Research Society Symposia Proceedings, 1994, 355, 227.                     | 0.1 | 1         |
| 132 | Comparison between modeling and experimental measurements of interfacial properties. Applied Surface Science, 2003, 219, 39-46.                                     | 3.1 | 1         |
| 133 | A model of oxygen adsorption at liquid copper surfaces. Surface Science, 2010, 604, 1369-1376.  | 0.8 | 1         |
| 134 | Influence of step structure on preferred orientation relationships of Ag deposited on Ni(111). Acta Materialia, 2020, 200, 287-296.                                 | 3.8 | 1         |
| 135 | A Comparison of the Surface Composition of Solid and Liquid Alloys. Materials Research Society Symposia Proceedings, 1986, 83, 67.                                  | 0.1 | 0         |
| 136 | Reply to Comment on Pseudopartial Wetting and Precursor Film Growth in Immiscible Metal Systems. Langmuir, 2005, 21, 3724-3724.                                     | 1.6 | 0         |
| 137 | Introduction to Interfaces and Diffusion. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 393-424.                                    | 0.2 | 0         |
| 138 | Grain Boundary Orientations in a Fe-Mn-Cu Polycrystalline Alloy. Ceramic Transactions, 0, , 213-220.  | 0.1 | 0         |
| 139 | On the relation between the anisotropies of grain boundary segregation and grain boundary energy. International Journal of Materials Research, 2022, 96, 1142-1146. | 0.1 | 0         |