

# Frank Ernst

## List of Publications by Year in descending order

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186  
papers

6,221  
citations

53794

45  
h-index

82547

72  
g-index

190  
all docs

190  
docs citations

190  
times ranked

4475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-oxide interfaces. Materials Science and Engineering Reports, 1995, 14, 97-156.	31.8	194
2	The influence of grain boundary inclination on the structure and energy of $\Sigma = 3$ grain boundaries in copper. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 66, 991-1016.	0.6	193
3	Colossal carbon supersaturation in austenitic stainless steels carburized at low temperature. Acta Materialia, 2003, 51, 4171-4181.	7.9	179
4	Formation of carbon-induced germanium dots. Applied Physics Letters, 1997, 71, 2340-2342.	3.3	176
5	Modified Stranski-Krastanov growth in stacked layers of self-assembled islands. Applied Physics Letters, 1999, 74, 1272-1274.	3.3	162
6	Carbon supersaturation due to paraequilibrium carburization: Stainless steels with greatly improved mechanical properties. Acta Materialia, 2006, 54, 1597-1606.	7.9	161
7	Theoretical prediction and direct observation of the $\sqrt{3}$ structure in Ag. Physical Review Letters, 1992, 69, 620-623.	7.8	157
8	Synthesis of GaN-carbon composite nanotubes and GaN nanorods by arc discharge in nitrogen atmosphere. Applied Physics Letters, 2000, 76, 652-654.	3.3	151
9	High resolution transmission electron microscopy studies of the Ag/MgO interface. Acta Metallurgica Et Materialia, 1992, 40, S227-S236.	1.8	144
10	Atomistic structure of $90^\circ$ domain walls in ferroelectric $\text{PbTiO}_3$ thin films. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 71, 713-724.	0.6	143
11	Phase segregation, Cu migration and junction formation in $\text{Cu}(\text{In}, \text{Ga})\text{Se}_2$ . EPJ Applied Physics, 1999, 6, 131-139.	0.7	121
12	On the generation of new orientations during recrystallization: Recent results on the recrystallization of tensile-deformed fcc single crystals. Progress in Materials Science, 1988, 32, 1-95.	32.8	115
13	Shape Control in Epitaxial Electrodeposition: $\text{Cu}_2\text{O}$ Nanocubes on $\text{InP}(001)$ . Chemistry of Materials, 2003, 15, 4882-4885.	6.7	115
14	Aligned $\text{CN}_{[x]}$ nanotubes by pyrolysis of ferrocene/ $\text{C}_{60}$ under $\text{NH}_3$ atmosphere. Applied Physics Letters, 2000, 77, 1807.	3.3	112
15	Quantitative high-resolution transmission electron microscopy of the incoherent $\sqrt{3}(211)$ boundary in Cu. Ultramicroscopy, 1994, 53, 205-221.	1.9	109
16	Germanium quantum dots embedded in silicon: Quantitative study of self-alignment and coarsening. Applied Physics Letters, 1999, 74, 269-271.	3.3	109
17	HRTEM study of a $\text{Cu}/\text{Al}_2\text{O}_3$ interface. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 63, 259-277.	0.6	105
18	Carbide precipitation in austenitic stainless steel carburized at low temperature. Acta Materialia, 2007, 55, 1895-1906.	7.9	97

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19	The formation mechanism of planar defects in compound semiconductors grown epitaxially on {100} silicon substrates. <i>Journal of Materials Research</i> , 1989, 4, 834-842.	2.6	91
20	Synthesizing boron nitride nanotubes filled with SiC nanowires by using carbon nanotubes as templates. <i>Applied Physics Letters</i> , 1999, 75, 1875-1877.	3.3	85
21	Formation of planar defects in the epitaxial growth of GaP on Si substrate by metal organic chemical vapor deposition. <i>Journal of Applied Physics</i> , 1988, 64, 4526-4530.	2.5	82
22	Composition of self-assembled Ge/Si islands in single and multiple layers. <i>Applied Physics Letters</i> , 2002, 81, 2614-2616.	3.3	76
23	Enhanced fatigue resistance in 316L austenitic stainless steel due to low-temperature paraequilibrium carburization. <i>Acta Materialia</i> , 2007, 55, 5572-5580.	7.9	75
24	Epitaxial Electrodeposition of High-Aspect-Ratio Cu <sub>2</sub> O(110) Nanostructures on InP(111). <i>Chemistry of Materials</i> , 2005, 17, 725-729.	6.7	74
25	Carbon paraequilibrium in austenitic stainless steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 1819-1824.	2.2	74
26	Effect of overgrowth temperature on the photoluminescence of Ge/Si islands. <i>Applied Physics Letters</i> , 2000, 77, 2509-2511.	3.3	72
27	Structure and Composition of Grain Boundaries in Ceramics. <i>Journal of the European Ceramic Society</i> , 1999, 19, 665-673.	5.7	71
28	Growth and microstructure of Ga <sub>2</sub> O <sub>3</sub> nanorods. <i>Solid State Communications</i> , 2000, 115, 527-529.	1.9	70
29	Dislocations in PbTiO <sub>3</sub> Thin Films. <i>Physica Status Solidi A</i> , 1995, 147, 135-154.	1.7	66
30	Carbides in low-temperature-carburized stainless steels. <i>Acta Materialia</i> , 2004, 52, 1469-1477.	7.9	65
31	Enhanced corrosion resistance of interstitially hardened stainless steel: Implications of a critical passive layer thickness for breakdown. <i>Acta Materialia</i> , 2012, 60, 716-725.	7.9	65
32	Epitaxial Growth of Cuprous Oxide Electrodeposited onto Semiconductor and Metal Substrates. <i>Journal of the American Ceramic Society</i> , 2005, 88, 253-270.	3.8	63
33	Orientation dependence of nitrogen supersaturation in austenitic stainless steel during low-temperature gas-phase nitriding. <i>Acta Materialia</i> , 2014, 79, 339-350.	7.9	60
34	Carburization-Induced Passivity of 316 L Austenitic Stainless Steel. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, C76.	2.2	59
35	Relaxed SiGe buffers with thicknesses below 0.1 $\mu$ m. <i>Thin Solid Films</i> , 2000, 369, 152-156.	1.8	57
36	Enhanced Corrosion Resistance of Stainless Steel Carburized at Low Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1805-1810.	2.2	57

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37	Prediction and Observation of the bcc Structure in Pure Copper at $\hat{\lambda} = 3$ Grain Boundary. <i>Physical Review Letters</i> , 1995, 75, 2160-2163.	7.8	56
38	Formation of (BN) <sub>x</sub> Cy and BN Nanotubes Filled with Boron Carbide Nanowires. <i>Chemistry of Materials</i> , 1999, 11, 3620-3623.	6.7	54
39	Theoretical and experimental investigations of structures and energies of $\hat{\lambda} = 3$ , [112] tilt grain boundaries in copper. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 77, 1161-1184.	0.6	52
40	Epitaxial Electrodeposition of a Crystalline Metal Oxide onto Single-Crystalline Silicon. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12369-12372.	2.6	52
41	Synthesis, characterization of a CoSe <sub>2</sub> catalyst for the oxygen reduction reaction. <i>Applied Catalysis A: General</i> , 2010, 386, 157-165.	4.3	50
42	Atomistic and electronic structure of Al/MgAl <sub>2</sub> O <sub>4</sub> and Ag/MgAl <sub>2</sub> O <sub>4</sub> interfaces. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 927-955.	0.6	49
43	Epitaxial electrodeposition of Cu <sub>2</sub> O films onto InP(001). <i>Applied Physics Letters</i> , 2003, 83, 1944-1946.	3.3	49
44	Enhanced Carbon Diffusion in Austenitic Stainless Steel Carburized at Low Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1768-1780.	2.2	47
45	Fundamental Investigation of Oxygen Reduction Reaction on Rhodium Sulfide-Based Chalcogenides. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6955-6968.	3.1	46
46	Heteroepitaxy on (001) Silicon: Growth Mechanisms and Defect Formation.. <i>Materials Research Society Symposia Proceedings</i> , 1988, 116, 57.	0.1	45
47	Atomistic Structure of $\hat{\lambda} = 3$ , (111) Grain Boundaries in Strontium Titanate. <i>Physica Status Solidi A</i> , 1998, 166, 57-71.	1.7	45
48	Resonant tunneling diodes made up of stacked self-assembled Ge/Si islands. <i>Applied Physics Letters</i> , 2000, 77, 4341-4343.	3.3	44
49	The carbide M <sub>7</sub> C <sub>3</sub> in low-temperature-carburized austenitic stainless steel. <i>Acta Materialia</i> , 2011, 59, 2268-2276.	7.9	43
50	Atomistic structure of misfit dislocations in SrZrO <sub>3</sub> /SrTiO <sub>3</sub> interfaces. <i>Acta Materialia</i> , 1998, 47, 183-198.	7.9	40
51	Poisson Effects on X-Ray Diffraction Patterns in Low-Temperature-Carburized Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1799-1804.	2.2	39
52	Carbon Nanotubes as Nanoreactors for Boriding Iron Nanowires. <i>Advanced Materials</i> , 2000, 12, 1356-1359.	21.0	37
53	Domain configurations in ferroelectric PbTiO <sub>3</sub> thin films: The influence of substrate and film thickness. <i>Solid State Ionics</i> , 1995, 75, 43-48.	2.7	36
54	Self-Assembled Nanowire Networks by Deposition of Copper onto Layered-Crystal Surfaces. <i>Advanced Materials</i> , 2002, 14, 1056.	21.0	36

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55	Interstitial defects in 316L austenitic stainless steel containing $\delta$ -carbon concentrations: An internal friction study. <i>Scripta Materialia</i> , 2007, 56, 1067-1070.	5.2	36
56	Wear maps for low temperature carburised 316L austenitic stainless steel sliding against alumina. <i>Surface Engineering</i> , 2010, 26, 284-292.	2.2	36
57	Highly Stable Pt@Au@Ru/C Catalyst Nanoparticles for Methanol Electro-oxidation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1457-1467.	3.1	36
58	Preferred Grain Orientation Relationships in Sintered Perovskite Ceramics. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1885-1890.	3.8	33
59	Carbon-induced germanium dots: Kinetically-limited islanding process prevents coherent vertical alignment. <i>Applied Physics Letters</i> , 1998, 73, 659-661.	3.3	32
60	Effect of Shear Stress on the Atomistic Structure of a Grain Boundary in Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 1997, 80, 1639-1644.	3.8	31
61	Characterization of self-assembled Ge islands on Si(100) by atomic force microscopy and transmission electron microscopy. <i>Thin Solid Films</i> , 1998, 321, 86-91.	1.8	29
62	Numerical Simulations of Carbon and Nitrogen Composition-Depth Profiles in Nitrocarburized Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4268-4279.	2.2	29
63	Properties of the Passive Film Formed on Interstitially Hardened AISI 316L Stainless Steel. <i>Electrochimica Acta</i> , 2015, 176, 410-419.	5.2	29
64	The decomposition kinetics of Al-1 at% Ag at 413 K studied by HREM. <i>Physica Status Solidi A</i> , 1987, 104, 403-416.	1.7	28
65	The atomistic structure of a $\Sigma = 3$ , (111) grain boundary in NiAl, studied by quantitative high-resolution transmission electron microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996, 74, 641-664.	0.6	28
66	Carburization-Enhanced Passivity of PH13-8 Mo: A Precipitation-Hardened Martensitic Stainless Steel. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, C37.	2.2	28
67	Thermal stability of low-temperature-carburized austenitic stainless steel. <i>Acta Materialia</i> , 2017, 128, 235-240.	7.9	28
68	TEM study of the structure and chemistry of a diamond/silicon interface. <i>Journal of Materials Research</i> , 1994, 9, 1566-1572.	2.6	27
69	Carbon-Supported, Selenium-Modified Ruthenium-Molybdenum Catalysts for Oxygen Reduction in Acidic Media. <i>ChemSusChem</i> , 2009, 2, 658-664.	6.8	27
70	Crystallization micro-mechanism of near-eutectic amorphous Ni-P. <i>Acta Materialia</i> , 2016, 104, 274-282.	7.9	27
71	Lattice mismatch accommodation at GeSi/{111}Si interfaces grown by liquid phase epitaxy. <i>Physica Status Solidi A</i> , 1992, 131, 651-662.	1.7	26
72	High-precision assessment of interface lattice offset by quantitative HRTEM. <i>Journal of Microscopy</i> , 1999, 194, 142-151.	1.8	26

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73	Preparation and optical properties of Ge and C-induced Ge quantum dots on Si. <i>Thin Solid Films</i> , 2000, 373, 164-169.	1.8	26
74	Expansion of interatomic distances in platinum catalyst nanoparticles. <i>Acta Materialia</i> , 2010, 58, 836-845.	7.9	26
75	Influence of pre-grown carbon on the formation of germanium dots. <i>Thin Solid Films</i> , 1998, 321, 70-75.	1.8	25
76	Laterally aligned Ge/Si islands: a new concept for faster field-effect transistors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 89, 101-105.	3.5	25
77	Surface hardening of Ti alloys by gas-phase nitridation: Kinetic control of the nitrogen surface activity. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 2429-2434.	2.2	25
78	Reliability of atom column positions in a ternary system determined by quantitative high-resolution transmission electron microscopy. <i>Journal of Microscopy</i> , 1998, 190, 144-158.	1.8	24
79	Understanding the efficacy of concentrated interstitial carbon in enhancing the pitting corrosion resistance of stainless steel. <i>Acta Materialia</i> , 2021, 221, 117433.	7.9	24
80	The influence of Pt and SrTiO <sub>3</sub> interlayers on the microstructure of PbTiO <sub>3</sub> thin films deposited by laser ablation on (001) MgO. <i>Journal of Materials Research</i> , 1995, 10, 791-794.	2.6	23
81	Thermal-stress-induced dislocations in GeSi/Si heterostructures. <i>Journal of Crystal Growth</i> , 1994, 137, 457-471.	1.5	22
82	C-induced Ge dots: a versatile tool to fabricate ultra-small Ge nanostructures. <i>Thin Solid Films</i> , 1998, 336, 248-251.	1.8	22
83	Self-organized periodic arrays of SiGe wires and Ge islands on vicinal Si substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 881-886.	2.7	22
84	Vertical correlation of SiGe islands in SiGe/Si superlattices: X-ray diffraction versus transmission electron microscopy. <i>Applied Physics Letters</i> , 2000, 77, 3953-3955.	3.3	22
85	Correlated SiGe wires shaped by regular step bunches on miscut Si(113) substrates. <i>Physical Review B</i> , 1999, 60, 10935-10940.	3.2	21
86	Paraequilibrium Carburization of Duplex and Ferritic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1781-1790.	2.2	21
87	Interstitial hardening of duplex 2205 stainless steel by low temperature carburisation: enhanced mechanical and electrochemical performance. <i>Surface Engineering</i> , 2012, 28, 213-219.	2.2	21
88	Diffusion profiles after nitrocarburizing austenitic stainless steel. <i>Surface and Coatings Technology</i> , 2015, 279, 180-185.	4.8	21
89	Dissociation of misfit dislocation nodes in (111)GeSi/Si interfaces. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1993, 68, 1251-1272.	0.6	20
90	Low-Temperature Carburization of the Ni-base Superalloy IN718: Improvements in Surface Hardness and Crevice Corrosion Resistance. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 2022-2032.	2.2	20

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91	Two-dimensional growth of strained Ge <sub>0.85</sub> Si <sub>0.15</sub> on Si(111) by liquid phase epitaxy. <i>Journal of Applied Physics</i> , 1992, 72, 2083-2085.	2.5	19
92	Shear strength and sliding at a metal-ceramic (aluminum-spinel) interface at ambient and elevated temperatures. <i>Acta Materialia</i> , 2007, 55, 3049-3057.	7.9	19
93	Ultrahigh-strength AISI-316 austenitic stainless steel foils through concentrated interstitial carbon. <i>Acta Materialia</i> , 2019, 167, 231-240.	7.9	19
94	Origin of diffuse electron scattering in yttria-cubic-stabilized zirconia single crystals with 24 mol% yttria. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 1675-1689.	0.6	18
95	Colossal interstitial supersaturation in delta ferrite in stainless steels. Low-temperature carburization. <i>Acta Materialia</i> , 2015, 86, 193-207.	7.9	18
96	Low-Temperature Carburization of Austenitic Stainless Steels. , 2014, , 451-460.		18
97	Ab-initio HRTEM simulations of ionic crystals: a case study of sapphire. <i>Journal of Microscopy</i> , 1998, 190, 89-98.	1.8	17
98	Relaxed SiGe buffer layer growth with point defect injection. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 71, 14-19.	3.5	17
99	Co-Cr-Mo alloys: Improved wear resistance through low-temperature gas-phase nitro-carburization. <i>Surface and Coatings Technology</i> , 2019, 378, 124943.	4.8	17
100	Ferromagnetism in interstitially hardened austenitic stainless steel induced by low-temperature gas-phase nitriding. <i>Scripta Materialia</i> , 2011, 65, 1089-1092.	5.2	16
101	Nanostructure and chemistry of a (100)MgO/(100)GaAs interface. <i>Applied Physics Letters</i> , 1994, 65, 564-566.	3.3	15
102	Present developments in high-resolution transmission electron microscopy. <i>Current Opinion in Solid State and Materials Science</i> , 1997, 2, 469-476.	11.5	15
103	High resolution electron microscopy of small precipitates. <i>Scripta Metallurgica</i> , 1987, 21, 1189-1194.	1.2	14
104	Fatigue crack growth in interstitially hardened AISI 316L stainless steel. <i>International Journal of Fatigue</i> , 2013, 47, 100-105.	5.7	14
105	Liquid phase epitaxy of GeSi on {111} Si substrates: lattice defect structure and electronic properties. <i>Journal of Crystal Growth</i> , 1992, 118, 452-460.	1.5	13
106	Diffusion reactions at Al-MgAl <sub>2</sub> O <sub>4</sub> interfaces and the effect of applied electric fields. <i>Journal of Materials Science</i> , 2006, 41, 7785-7797.	3.7	13
107	Volatility Diagrams for the Cr-O and Cr-Cl Systems: Application to Removal of Cr <sub>2</sub> O <sub>3</sub> -Rich Passive Films on Stainless Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012, 43, 1187-1201.	2.1	13
108	Cellular Precipitation at a 17-7 PH Stainless Steel Interphase Interface During Low-Temperature Nitridation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3578-3585.	2.2	13

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109	Effect of tungsten alloying on short-to-medium-range-order evolution and crystallization behavior of near-eutectic amorphous Niâ€“P. <i>Acta Materialia</i> , 2017, 122, 400-411.	7.9	13
110	Quantification of irradiation damage generated during HRTEM with 1250 keV electrons. <i>Ultramicroscopy</i> , 1996, 63, 49-55.	1.9	12
111	On Epitaxy and Orientation Relationships in Bicrystals. <i>Solid State Phenomena</i> , 1998, 59-60, 51-62.	0.3	12
112	Electronic impact of concentrated interstitial carbon on physical properties of AISI-316 austenitic stainless steel. <i>Acta Materialia</i> , 2019, 173, 96-105.	7.9	12
113	Stressâ€“Corrosion Cracking of AISI 316L Stainless Steel in Seawater Environments: Effect of Surface Machining. <i>Metals</i> , 2020, 10, 1324.	2.3	12
114	Low-Temperature Nitridation of 2205 Duplex Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 608-617.	2.2	11
115	Quantitative assessment of nanoparticle size distributions from HRTEM images. <i>International Journal of Materials Research</i> , 2006, 97, 928-933.	0.3	11
116	Interface dislocations forming during epitaxial growth of GeSi on (111) Si substrates at high temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997, 233, 126-138.	5.6	10
117	Micromechanisms of fracture in NiAl studied by in situ straining experiments in an HVEM. <i>Intermetallics</i> , 1999, 7, 479-489.	3.9	10
118	Epitaxy of Ge on sapphire. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 323, 9-16.	5.6	10
119	Concentration-Dependent Carbon Diffusivity in Austenite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3790-3799.	2.2	10
120	Reduced critical thickness and photoluminescence line splitting in multiple layers of self-assembled Ge/Si islands. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 74, 248-252.	3.5	9
121	Formation of nickel nanoparticles in nickel â€“ ceramic anodes during operation of solid-oxide fuel cells. <i>International Journal of Materials Research</i> , 2008, 99, 548-552.	0.3	9
122	â€“Colossalâ€“interstitial supersaturation in delta ferrite in stainless steels: (II) low-temperature nitridation of the 17-7â€“PH alloy. <i>Acta Materialia</i> , 2017, 124, 237-246.	7.9	9
123	Low-Temperature Carburization of AL-6XN Enabled by Provisional Passivation. <i>Metals</i> , 2018, 8, 997.	2.3	9
124	Step bunching and correlated SiGe nanostructures on Si(113). <i>Thin Solid Films</i> , 2000, 369, 39-42.	1.8	8
125	Self-Ordering of Ge Islands on Si Substrates Mediated by Local Strain Fields. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 224, 531-535.	1.5	8
126	Electroless Deposition of Copper-Manganese for Applications in Semiconductor Interconnect Metallization. <i>Journal of the Electrochemical Society</i> , 2016, 163, D374-D378.	2.9	8



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127	High Resolution Electron Microscopy of an Alumina/Copper Interface. Materials Research Society Symposia Proceedings, 1988, 138, 557.	0.1	7
128	Twin boundaries with 9R zone in Cu and Ag studied by quantitative HRTEM. Journal of Materials Science, 1995, 2, 201.	1.2	7
129	Self-Assembling Si/SiGe Nanostructures for Light Emitters. Solid State Phenomena, 1999, 69-70, 13-22.	0.3	7
130	Liquid-phase deposition of single-phase alpha-copper-indium-diselenide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 311-319.	3.5	7
131	Sustained-load crack growth of hydrogen-charged surface-hardened 316L stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 43-50.	5.6	7
132	The Effect of Surface Finish on Low-Temperature Acetylene-Based Carburization of 316L Austenitic Stainless Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2338-2345.	2.1	7
133	The Formation of Martensitic Austenite During Nitridation of Martensitic and Duplex Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 8-13.	2.2	7
134	High-temperature phase transformations in AISI 316 stainless steel infused with concentrated interstitial carbon. Journal of Alloys and Compounds, 2020, 819, 153000.	5.5	7
135	The passivity of low-temperature carburized austenitic stainless steel AISI-316L in a simulated boiling-water-reactor environment. Journal of Nuclear Materials, 2020, 537, 152197.	2.7	7
136	Inversion Domain Boundary Dislocations in Heteroepitaxial Films. Materials Research Society Symposia Proceedings, 1988, 144, 189.	0.1	6
137	Interaction between Point Defects and Dislocations in SiGe. Solid State Phenomena, 1999, 69-70, 179-184.	0.3	6
138	Fabrication of Cu-induced networks of linear nanostructures on different length scales. Acta Materialia, 2002, 50, 4925-4933.	7.9	6
139	NiAl precipitation in delta ferrite grains of 17-7 precipitation-hardening stainless steel during low-temperature interstitial hardening. Scripta Materialia, 2015, 108, 136-140.	5.2	6
140	Effect of lubricant additives on the tribological behavior of aluminum alloy against steel. International Journal of Materials Research, 2018, 109, 789-802.	0.3	6
141	Quantitative High-Resolution Electron Microscopy of Interfaces. Materials Science Forum, 1996, 207-209, 23-34.	0.3	5
142	Lateral ordering of self-assembled Ge islands. Thin Solid Films, 1998, 336, 252-255.	1.8	5
143	Growth of ultra-thin and highly relaxed SiGe layers under in-situ introduction of point defects. EPJ Applied Physics, 2004, 27, 341-344.	0.7	5
144	In situ nanoscale observation and control of electron-beam-induced cluster formation. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 1797.	1.6	5

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145	Localized Corrosion Resistance of LTCSS-Carburized Materials to Seawater Immersion. ECS Transactions, 2007, 3, 613-621.	0.5	5
146	Stress-Induced Corrosion Cracking of Surface-Engineered Alloys in a Simulated Boiling-Water Reactor Environment. Corrosion, 2018, 74, 635-653.	1.1	5
147	Effect of tungsten alloying on magnetic properties of amorphous Ni-P. Journal of Alloys and Compounds, 2019, 786, 742-749.	5.5	5
148	Structural investigation of Si/SiGe superlattices on vicinal (113) oriented Si. Thin Solid Films, 1999, 357, 71-75.	1.8	4
149	Background of SAM atom-fraction profiles. Materials Characterization, 2017, 125, 142-151.	4.4	4
150	Surface engineering of IN-718 by low-temperature carburisation: properties and thermal stability. Surface Engineering, 2019, 35, 281-293.	2.2	4
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