

Pavel LejÄek

List of Publications by Year in descending order

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201658

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180
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180
docs citations

180
times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	Enthalpy â€“ entropy compensation effect in grain boundary phenomena. International Journal of Materials Research, 2022, 96, 1129-1133.	0.3	1
2	The Role of Mandrel Rotation during CSET Processing Demonstrated on a 3003 Aluminium Alloy. Metals, 2022, 12, 398.	2.3	0
3	Selective laser melting of iron: Multiscale characterization of mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140316.	5.6	5
4	Entropy-dominated grain boundary segregation. Journal of Materials Science, 2021, 56, 7464-7473.	3.7	6
5	Entropy matters in grain boundary segregation. Acta Materialia, 2021, 206, 116597.	7.9	21
6	Laser shock peening of copper poly- and single crystals. Materials Characterization, 2021, 174, 111037.	4.4	5
7	Entropy-Driven Grain Boundary Segregation: Prediction of the Phenomenon. Metals, 2021, 11, 1331.	2.3	4
8	Microstructural Evolution of a 3003 Based Aluminium Alloy during the CSET Process. Materials, 2021, 14, 5770.	2.9	2
9	Complex shearing of extruded tube (CSET) method for production of tubes with ultra-fine-grained structure. Materials Letters, 2020, 278, 128341.	2.6	4
10	Explanation of the apparent depth resolution improvement by SIMS using cluster ion detection. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, 034010.	1.2	0
11	Structure and Properties of High-Strength Ti Grade 4 Prepared by Severe Plastic Deformation and Subsequent Heat Treatment. Materials, 2020, 13, 1116.	2.9	2
12	Crack growth in Fe-Si (2â€“wt%) single crystals on macroscopic and atomistic level. Results in Physics, 2019, 14, 102450.	4.1	9
13	Selective laser melting of pure iron: Multiscale characterization of hierarchical microstructure. Materials Characterization, 2019, 154, 222-232.	4.4	30
14	Modeling grain boundary segregation by prediction of all the necessary parameters. Acta Materialia, 2019, 170, 253-267.	7.9	21
15	The Significance of Entropy in Grain Boundary Segregation. Materials, 2019, 12, 492.	2.9	14
16	Interpreting slip transmission through mechanically induced interface energies: a Feâ€“3%Si case study. Journal of Materials Science, 2019, 54, 1831-1843.	3.7	15
17	The Use of Selective Laser Melting to Increase the Performance of AlSi9Cu3Fe Alloy. Materials, 2018, 11, 1918.	2.9	26
18	Prediction of binary interaction coefficients in grain boundary segregation. Surface and Interface Analysis, 2018, 50, 640-647.	1.8	6

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19	Recent trends and open questions in grain boundary segregation. Journal of Materials Research, 2018, 33, 2647-2660.	2.6	42
20	Grain boundary segregation of elements of groups 14 and 15 and its consequences for intergranular cohesion of ferritic iron. Journal of Materials Science, 2017, 52, 5822-5834.	3.7	11
21	Interfacial segregation and grain boundary embrittlement: An overview and critical assessment of experimental data and calculated results. Progress in Materials Science, 2017, 87, 83-139.	32.8	160
22	Grain Boundaries in Iron. , 2016, , 1305-1367.		0
23	Investigations on Grain Boundary Segregation Energy of Phosphorus in 12Cr1MoV Steel Under Elastic Stress. Advanced Engineering Materials, 2016, 18, 506-510.	3.5	2
24	Interstitial and substitutional solute segregation at individual grain boundaries of α -iron: data revisited. Journal of Physics Condensed Matter, 2016, 28, 064001.	1.8	22
25	On the segregation behavior of tin and antimony at grain boundaries of polycrystalline bcc iron. Applied Surface Science, 2016, 363, 140-144.	6.1	15
26	Crack growth in Fe-2.7 wt% Si single crystals under cyclic loading and 3D atomistic results in bcc iron. International Journal of Fatigue, 2016, 87, 63-70.	5.7	10
27	A Partial Isothermal Section at 1000°C of Al-Mn-Fe Phase Diagram in Vicinity of Taylor Phase and Decagonal Quasicrystal. Journal of Phase Equilibria and Diffusion, 2016, 37, 130-134.	1.4	8
28	Comment on "Mitigating grain growth in binary nanocrystalline alloys through solute selection based on thermodynamic stability maps". Computational Materials Science, 2015, 107, 235-237.	3.0	1
29	Thermodynamic effect of elastic stress on grain boundary segregation of phosphorus in a low alloy steel. Journal of Alloys and Compounds, 2015, 647, 172-178.	5.5	3
30	Applied Thermodynamics: Grain Boundary Segregation. Entropy, 2014, 16, 1462-1483.	2.2	38
31	An analysis of segregation-induced changes in grain boundary cohesion in bcc iron. Journal of Materials Science, 2014, 49, 2477-2482.	3.7	28
32	Formation of grain boundaries in magnesium single crystal during equal channel angular pressing. Philosophical Magazine, 2014, 94, 1095-1111.	1.6	4
33	Local plastic deformation in the vicinity of grain boundaries in Fe-3% Si alloy bicrystals and tricrystal. Journal of Materials Science, 2014, 49, 4698-4704.	3.7	20
34	Boundary plane distribution for α 13 grain boundaries in magnesium. Materials Letters, 2014, 137, 102-105.	2.6	14
35	Excess Volume in Grain Boundary Segregation. Journal of Surface Analysis (Online), 2014, 20, 198-201.	0.1	1
36	Effect of Ca-addition on dynamic recrystallization of Mg-Zn alloy during hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 580, 217-226.	5.6	41

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37	In situ TEM investigation of microstructural behavior of superplastic Al-Mg-Sc alloy. <i>Materials Characterization</i> , 2013, 76, 69-75.	4.4	18
38	Effect of ternary solute interaction on interfacial segregation and grain boundary embrittlement. <i>Journal of Materials Science</i> , 2013, 48, 4965-4972.	3.7	9
39	Effect of solute interaction on interfacial segregation and grain boundary embrittlement in binary alloys. <i>Journal of Materials Science</i> , 2013, 48, 2574-2580.	3.7	13
40	Why calculated energies of grain boundary segregation are unreliable when segregant solubility is low. <i>Scripta Materialia</i> , 2013, 68, 547-550.	5.2	53
41	Texture evolution in oriented magnesium single crystals processed by equal channel angular pressing. <i>Philosophical Magazine</i> , 2012, 92, 1223-1237.	1.6	6
42	Twin nucleation at grain boundaries in Mg-3 wt.% Al-1 wt.% Zn alloy processed by equal channel angular pressing. <i>Scripta Materialia</i> , 2012, 67, 467-470.	5.2	38
43	Solute segregation at 46.8°(111) twist grain boundary of a phosphorus doped Fe-2.3%V alloy. <i>Surface Science</i> , 2012, 606, 258-262.	1.9	15
44	Grain boundary plane reorientation: model experiments on bi- and tricrystals. <i>Journal of Materials Science</i> , 2012, 47, 5106-5113.	3.7	4
45	New misorientation scheme for a visco-plastic self-consistent model: Equal channel angular pressing of magnesium single crystals. <i>International Journal of Plasticity</i> , 2012, 29, 1-12.	8.8	30
46	Vacancy-like defects associated with icosahedral phase in Mg-Y-Nd-Zr alloys modified by the addition of Zn. <i>Scripta Materialia</i> , 2012, 66, 630-633.	5.2	8
47	Modeling texture development in a magnesium single crystal during equal channel angular pressing. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 76-79.	0.6	0
48	The role of low-angle grain boundaries in multi-temperature equal channel angular pressing of Mg-3Al-1Zn alloy. <i>Journal of Materials Science</i> , 2012, 47, 3265-3271.	3.7	12
49	{-}{-} Double twinning in magnesium. <i>Philosophical Magazine Letters</i> , 2011, 91, 537-544.	1.2	34
50	Quantitative AES at Interfaces. <i>Journal of Surface Analysis (Online)</i> , 2011, 17, 241-246.	0.1	1
51	Characteristics of coincident site lattice grain boundaries developed during equal channel angular pressing of magnesium single crystals. <i>Scripta Materialia</i> , 2011, 64, 470-473.	5.2	52
52	Crystallographic aspects of intergranular failure of archaeological silver artefacts. <i>Surface and Interface Analysis</i> , 2011, 43, 1128-1133.	1.8	6
53	Ductile-brittle behavior at the (110)[001] crack in bcc iron crystals loaded in mode I. <i>Engineering Fracture Mechanics</i> , 2010, 77, 184-192.	4.3	31
54	Fracture of polycrystalline Fe-2.3%V-0.12%P alloy. <i>Engineering Fracture Mechanics</i> , 2010, 77, 385-392.	4.3	6

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55	Reversed anisotropy of grain boundary properties and its effect on grain boundary engineering. Acta Materialia, 2010, 58, 1930-1937.	7.9	14
56	Properties of (Ti,Nb)Al ₃ -(Ti,Nb) ₅ Si ₃ eutectic composite. Composite Structures, 2010, 92, 1440-1448.	5.8	6
57	Copper surface enrichment of Ag ₂ Cu alloys. Surface and Interface Analysis, 2010, 42, 662-665.	1.8	6
58	Grain Boundary Migration in Fe-3mass%Si Alloy Bicrystals under a Magnetic Field. ISIJ International, 2010, 50, 591-595.	1.4	3
59	Grain Boundary Engineering and Alterations in Anisotropy of Interfacial Properties. Materials Science Forum, 2010, 654-656, 2350-2353.	0.3	0
60	Microstructure and Texture of Magnesium Single Crystals Processed by ECAP. Materials Science Forum, 2010, 667-669, 355-360.	0.3	0
61	Structure/Property Relationship in Intergranular Corrosion of Archaeological Silver Artefacts. Materials Science Forum, 2010, 638-642, 2852-2857.	0.3	4
62	Effect of Variables on Equilibrium Grain Boundary Segregation. Springer Series in Materials Science, 2010, , 103-152.	0.6	1
63	Visualizing the propagation of volume magnetization in bulk ferromagnetic materials by neutron grating interferometry (invited). Journal of Applied Physics, 2010, 107, 09D308.	2.5	24
64	Grain Boundary Segregation and Related Phenomena. Springer Series in Materials Science, 2010, , 173-201.	0.6	7
65	Approaches to Study Grain Boundary Segregation. Springer Series in Materials Science, 2010, , 25-49.	0.6	1
66	Models of Equilibrium Grain Boundary Segregation. Springer Series in Materials Science, 2010, , 51-102.	0.6	9
67	Principles of Non-equilibrium Segregation. Springer Series in Materials Science, 2010, , 153-171.	0.6	1
68	Grain Boundary Segregation in Metals. Springer Series in Materials Science, 2010, , .	0.6	237
69	Grain Boundaries: Description, Structure and Thermodynamics. Springer Series in Materials Science, 2010, , 5-24.	0.6	16
70	Surface composition of a Ag-5.1Cu (mass%) alloy. International Journal of Materials Research, 2009, 100, 311-314.	0.3	4
71	Directional crystallisation of Ti-Al-Si in-situ composites. International Journal of Materials Research, 2009, 100, 417-419.	0.3	0
72	Preparation of location-specific thin foils from Fe-3% Si bi- and tri-crystals for examination in a FEG-STEM. Ultramicroscopy, 2009, 109, 147-153.	1.9	7

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73	Surface and grain-boundary segregation studied by quantitative AES and XPS. International Journal of Materials Research, 2009, 100, 1167-1172.	0.3	5
74	Influence of Phosphorus Grain Boundary Segregation on Fracture Behaviour of Iron-Base Alloys. Materials Science Forum, 2008, 567-568, 33-38.	0.3	0
75	Growth of Metallic Crystals by Floating Zone Technique with Optical Heating. Materials Science Forum, 2008, 567-568, 277-280.	0.3	2
76	Intergranular Failure of Roman Silver Artefacts. Materials Science Forum, 2008, 567-568, 213-216.	0.3	11
77	Unidirectional crystallization and high-temperature oxidation of in situ Ti ₃ (Al,Si)â€“Ti ₅ (Si,Al) ₃ composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 489, 1-10.	5.6	12
78	Solute segregation to ferrite grain boundaries in nodular cast iron: experiment and prediction. Surface and Interface Analysis, 2008, 40, 503-506.	1.8	4
79	Analysis of grain boundaries in an embrittled ancient silver necklace. Surface and Interface Analysis, 2008, 40, 454-457.	1.8	15
80	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
81	Is the Compensation Effect a Phase Transition?. Solid State Phenomena, 2008, 138, 339-346.	0.3	5
82	Neutron Decoherence Imaging for Visualizing Bulk Magnetic Domain Structures. Physical Review Letters, 2008, 101, 025504.	7.8	88
83	Migration of 45Â° [100] grain boundaries in an Feâ€“6at.% Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 446-449.	5.6	1
84	Prediction of enthalpy and entropy of solute segregation at individual grain boundaries of Î±-iron and ferrite steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 76-85.	5.6	35
85	Grain boundary segregation of phosphorus and silicon in polycrystals and bicrystals of the Feâ€“2.6Siâ€“0.055P alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 441-445.	5.6	9
86	Influence of crack orientation on the ductileâ€“brittle behavior in Feâ€“3Âwt.% Si single crystals. Materials Characterization, 2007, 58, 892-900.	4.4	46
87	Influence of phosphorus enrichment at grain boundaries on energy of intergranular fracture in Feâ€“Siâ€“P alloys. Surface and Interface Analysis, 2006, 38, 401-405.	1.8	5
88	Preferential growth direction in Fe-28at.%Al-4at.%Cr alloy. Journal of Crystal Growth, 2006, 287, 267-269.	1.5	3
89	Growth of oriented tricrystals of an Feâ€“Si alloy. Journal of Crystal Growth, 2006, 287, 262-266.	1.5	6
90	Surface segregation in FeSi alloys. Surface Science, 2006, 600, 4108-4112.	1.9	11

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91	Role of composition heterogeneity on fracture micromechanisms of nodular cast iron. <i>Materials Science and Technology</i> , 2006, 22, 1415-1422.	1.6	2
92	Surface and Grain Boundary Segregation in Fe-3%Si Alloy. <i>Steel Research International</i> , 2005, 76, 435-439.	1.8	2
93	Growth of metallic bicrystals with high-energy grain boundary orientation. <i>Journal of Crystal Growth</i> , 2005, 275, e1591-e1596.	1.5	5
94	Growth of alloy bicrystals with twist grain boundaries by the floating zone technique. <i>Journal of Crystal Growth</i> , 2005, 275, e1597-e1602.	1.5	6
95	Phase composition at surface of Fe-3%Si alloy. <i>European Physical Journal D</i> , 2005, 55, 875-882.	0.4	2
96	Challenges of interfacial classification for grain boundary engineering. <i>Materials Science and Technology</i> , 2005, 21, 393-398.	1.6	16
97	Interaction of migrating grain boundaries with crystal defects: observation by in situ SR topography. <i>Journal Physics D: Applied Physics</i> , 2005, 38, A33-A38.	2.8	0
98	Effect of Grain Boundary Segregation on Mechanical Properties of P-Doped Fe-Si Base Alloys. <i>Materials Science Forum</i> , 2005, 482, 191-194.	0.3	4
99	Anisotropic Behaviour of Grain Boundaries. <i>Materials Science Forum</i> , 2005, 482, 63-70.	0.3	6
100	Migration of the $45^\circ [100], (001)/(011)$ Asymmetrical Tilt Grain Boundary in an Fe-6at%Si Alloy. <i>Materials Science Forum</i> , 2005, 482, 199-202.	0.3	2
101	Enthalpy-entropy compensation effect in grain boundary phenomena. <i>International Journal of Materials Research</i> , 2005, 96, 1129-1133.	0.8	11
102	Influence of Thermal Treatment on Microstructure and Hardness of Niobium Alloyed PM-Tool Steel. <i>Instrumentation Science and Technology</i> , 2004, 32, 207-219.	1.8	2
103	Grain boundary segregation in an ordered Fe-24at.%Si alloy. <i>Surface Science</i> , 2004, 566-568, 826-831.	1.9	5
104	Solute segregation at grain boundaries of a partially ordered Fe ₃ Al base alloy. <i>Surface and Interface Analysis</i> , 2004, 36, 938-940.	1.8	10
105	Anisotropy of Grain Boundary Migration Observed in Situ by Synchrotron Radiation. <i>Materials Science Forum</i> , 2004, 467-470, 911-916.	0.3	1
106	Grain boundary segregation of antimony in δ -iron: prediction and experimental data. <i>Journal of Alloys and Compounds</i> , 2004, 378, 85-88.	5.5	18
107	Comment on "1/2" On the relationship between the entropy and enthalpy of interfacial segregation" by L. Rubinovich and M. Polak. <i>European Physical Journal B</i> , 2003, 31, 439-441.	1.5	2
108	Thermal treatment of PM-tool steel alloyed with niobium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 356, 200-207.	5.6	21

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109	Solute segregation and classification of [100] tilt grain boundaries in $\hat{\pm}$ -iron: consequences for grain boundary engineering. <i>Acta Materialia</i> , 2003, 51, 3951-3963.	7.9	118
110	Boron segregation in intermetallics: on the possible origins of a low-level intergranular segregation. <i>Intermetallics</i> , 2003, 11, 1053-1063.	3.9	23
111	Stability of the inelastic mean free paths determined by elastic peak electron spectroscopy in nickel and silicon. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002, 20, 447-455.	2.1	12
112	Grain Boundary Segregation, Anisotropy and Prediction. , 2002, , 1-7.		6
113	Thermodynamics of phosphorus grain boundary segregation in 17Cr12Ni austenitic steel. <i>Scripta Materialia</i> , 2002, 46, 7-12.	5.2	12
114	Prediction of enthalpy and entropy of grain boundary segregation. <i>Surface and Interface Analysis</i> , 2002, 33, 203-210.	1.8	27
115	Grain boundary segregation in Ni-Sb alloy polycrystals. <i>Surface and Interface Analysis</i> , 2002, 34, 375-379.	1.8	7
116	Atomic Ordering at Grain Boundaries in Fe-Si and Fe-Al Alloys. , 2002, , 571-574.		0
117	Solute segregation at ordered grain boundaries. <i>Surface Science</i> , 2001, 487, 210-222.	1.9	23
118	On the Relationship Between Entropy and Enthalpy of Grain Boundary Segregation. <i>Journal of Materials Science</i> , 2001, 9, 221-230.	1.2	19
119	Inelastic mean free path measurements of electrons near nickel surfaces. <i>Surface and Interface Analysis</i> , 2000, 30, 217-221.	1.8	9
120	Metallurgical applications of AES: anisotropy of grain boundary segregation. <i>Surface and Interface Analysis</i> , 2000, 30, 321-326.	1.8	6
121	Thermodynamics of phosphorus grain boundary segregation in polycrystalline low-alloy steels. <i>Surface and Interface Analysis</i> , 2000, 30, 354-358.	1.8	30
122	Melt growth of non-isoaxial bicrystals of an Fe $\hat{\pm}$ 3%Si alloy. <i>Journal of Crystal Growth</i> , 2000, 211, 461-465.	1.5	7
123	Investigations of grain boundaries in copper using emission M $\hat{\pm}$ ssbauer spectroscopy. , 2000, 126, 215-218.		8
124	Grain boundary segregation and brittle fracture in a Pt-Rh base alloy. <i>Scripta Materialia</i> , 1999, 40, 485-489.	5.2	3
125	Thermodynamic aspects of anisotropy of grain boundary segregation. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr4-21-Pr4-26.	0.2	6
126	Grain Boundary Migration in Fe-3wt.%Si Alloys. <i>Journal of Materials Science</i> , 1998, 6, 59-66.	1.2	17

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127	Surface segregation on Fe-Si single crystals: the effect of crystallography. Surface Science, 1998, 417, 337-349.	1.9	1
128	Special [100] Tilt Grain Boundaries in Iron: A Segregation Study. Materials Science Forum, 1998, 294-296, 103-106.	0.3	6
129	Properties of Iron Atoms at Grain Boundaries in Fe and Fe ₇₂ Al ₂₈ . Materials Research Society Symposia Proceedings, 1998, 527, 273.	0.1	4
130	Temperature dependence of the grain boundary segregation of Bi in Cu polycrystals. Scripta Materialia, 1997, 37, 729-735.	5.2	70
131	Effect of surface orientation on the segregation of Si and N in Fe-6 at.% Si. European Physical Journal D, 1997, 47, 429-433.	0.4	0
132	Chemical aspects of brittle fracture: grain boundary segregation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 234-236, 283-286.	5.6	16
133	Study of Dynamic Embrittlement in Alloy Bicrystals. Materials Research Society Symposia Proceedings, 1996, 458, 289.	0.1	2
134	Interfacial Segregation in Bicrystals: A Database for Grain Boundary Design of Polycrystals. Materials Research Society Symposia Proceedings, 1996, 458, 321.	0.1	0
135	INTERFACIAL AND SURFACE MICROCHEMISTRY. , 1996, , 1201-1289.		74
136	Thermodynamics and structural aspects of grain boundary segregation. Critical Reviews in Solid State and Materials Sciences, 1995, 20, 1-85.	12.3	226
137	Grain boundary migration in $\lambda=5$ bicrystals of an Fe-3%Si alloy. Journal of Materials Science, 1994, 1, 187-199.	1.2	21
138	Characterization of grain boundary segregation in an Fe-Si alloy. Analytica Chimica Acta, 1994, 297, 165-178.	5.4	71
139	On the thermodynamic description of grain boundary segregation in polycrystals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 185, 109-114.	5.6	17
140	Auger electron spectroscopy on both fracture surfaces of an (001)/(011) asymmetrical grain boundary. Surface Science, 1994, 307-309, 798-803.	1.9	19
141	Intergranular corrosion of a curved $\lambda=5$ grain boundary in an Fe-Si alloy bicrystal. Scripta Metallurgica Et Materialia, 1994, 30, 283-286.	1.0	10
142	Iron low-temperature self-diffusion in Fe - 1.82 wt.% Si bicrystal. Scripta Metallurgica Et Materialia, 1994, 31, 859-863.	1.0	1
143	Grain boundary segregation diagrams of $\lambda=5$ -iron. Journal of Materials Science, 1993, 1, 163-174.	1.2	42
144	Solute segregation to grain boundaries and free surfaces in an Fe-Si multicomponent alloy. Surface Science, 1993, 280, 325-334.	1.9	21

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145	Dilatometric study of martensitic transformation in Cu-Al-Ni single crystal. Scripta Metallurgica Et Materialia, 1993, 28, 139-144.	1.0	5
146	INTERFACIAL SEGREGATION IN $\hat{\Gamma}$ -IRON. International Journal of Modern Physics B, 1993, 07, 528-533.	2.0	6
147	Anisotropy of Grain Boundary Segregation Enthalpy in [100] Bicrystals of an Fe-Si Alloy. Materials Science Forum, 1993, 126-128, 157-160.	0.3	6
148	Anisotropy of grain boundary segregation in $\hat{\Gamma} = 5$ bicrystals of $\hat{\Gamma}$ -iron. Surface Science, 1992, 264, 449-454.	1.9	43
149	Kinetics of sulfur surface segregation in Fe-6at%Si. Surface Science, 1992, 261, 267-274.	1.9	29
150	Anisotropy of interfacial segregation: grain boundaries and free surfaces. Surface Science, 1992, 269-270, 1147-1151.	1.9	12
151	A report on current research on grain-boundary structure and chemistry. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 154, 113-123.	5.6	11
152	Correlation between segregation enthalpy, solid solubility and interplanar spacing of $\hat{\Gamma} = 5$ tilt grain boundaries in $\hat{\Gamma}$ -iron. Scripta Metallurgica Et Materialia, 1991, 25, 2259-2262.	1.0	25
153	On the fracture path and the intergranular phosphorus distribution in phosphorus-doped Fe- $\hat{\Gamma}$ -Si symmetrical bicrystals. Acta Metallurgica Et Materialia, 1991, 39, 1289-1295.	1.8	27
154	Segregation enthalpies of phosphorus, carbon and silicon at {013} and {012} symmetrical tilt grain boundaries in an Fe-3.5 at.% Si alloy. Acta Metallurgica Et Materialia, 1991, 39, 2469-2476.	1.8	63
155	On the anisotropy of grain boundary segregation in multicomponent systems. Progress in Surface Science, 1990, 35, 209-213.	8.3	15
156	Temperature dependence of the phosphorus segregation at the twin boundary in an Fe-4 at.% Si alloy. Surface and Interface Analysis, 1990, 16, 546-551.	1.8	34
157	Anisotropy of grain boundary segregation in as-grown Fe-6at%Si alloy bicrystals. Applied Surface Science, 1990, 44, 75-86.	6.1	11
158	SEGREGATION AT SPECIAL GRAIN BOUNDARIES IN Fe-Si ALLOY BICRYSTALS. Journal De Physique Colloque, 1990, 51, C1-179-C1-184.	0.2	3
159	Anisotropy of surface segregation in Fe-5.9 at %Si alloy. Scripta Metallurgica, 1989, 23, 2147-2152.	1.2	12
160	The effects of the structure of the fracture surface on the measurements of grain-boundary segregation by AES. Journal of Materials Science Letters, 1988, 7, 646-648.	0.5	9
161	Single grain boundary migration. European Physical Journal D, 1988, 38, 470-473.	0.4	4
162	Segregation to {112} grain boundary in dilute FeSi alloy bicrystals. Scripta Metallurgica, 1988, 22, 1379-1382.	1.2	7

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163	On the determination of surface composition in auger electron spectroscopy. Surface Science, 1988, 202, 493-508.	1.9	24
164	A High-Resolution Aes Study of the Non-Uniform Distribution of Phosphorus on the Fractured Grain Boundaries of Doped Fe-Si Bicrystals. Materials Research Society Symposia Proceedings, 1988, 122, 255.	0.1	0
165	The Topography and Chemistry of Grain Boundary Fracture Surface in Dilute Fe-Si Alloy Bicrystals. Studies in Surface Science and Catalysis, 1988, 40, 324-326.	1.5	0
166	Orientation dependent surface segregation in dilute Fe-Si alloy single crystals. Scripta Metallurgica, 1987, 21, 273-276.	1.2	4
167	Segregation at the {013} symmetrical tilt grain boundary in dilute Fe-Si alloy bicrystals. Journal of Materials Science, 1987, 22, 3974-3982.	3.7	17
168	Crystal growth in thin nickel strips. Journal of Crystal Growth, 1986, 79, 149-153.	1.5	1
169	Diffusion-Elastic Effect – Its Relation to the Gorsky Effect and its Application to Measurements of Diffusivity of Hydrogen in the Crystal Lattice of Nickel with Trapping Sites*. Zeitschrift Fur Physikalische Chemie, 1985, 145, 239-250.	2.8	17
170	Neutron diffraction topography of crystals with highly misorientated regions. Crystal Research and Technology, 1984, 19, 1501-1505.	1.3	1
171	Orientation relationships in the secondary recrystallization of pure nickel. Materials Science and Engineering, 1983, 60, 121-124.	0.1	14
172	Die Diffusion von Wasserstoff in Nickel-Ein- und -Polykristallen bei 60°C. Crystal Research and Technology: Journal of Experimental and Industrial Crystallography, 1979, 14, 285-288.	0.3	6
173	Grain Boundary Migration and Compensation Effect. Materials Science Forum, 0, 550, 387-392.	0.3	0
174	Solute Interaction in Grain Boundary Segregation and Cohesion. Key Engineering Materials, 0, 592-593, 389-392.	0.4	0
175	Open Questions in Nanosegregation. Materials Science Forum, 0, 891, 3-10.	0.3	0