## Peter Hedstrm

## List of Publications by Citations

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116<br/>papers2,126<br/>citations26<br/>h-index40<br/>g-index122<br/>ext. papers2,592<br/>ext. citations4.2<br/>avg, IF5.32<br/>L-index

#	Paper	IF	Citations
116	Effect of carbon content on variant pairing of martensite in Fell alloys. Acta Materialia, 2012, 60, 7265-7	′287 <sub>4</sub> 4	122
115	An improved thermodynamic modeling of the Fell system down to zero kelvin coupled with key experiments. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2011</b> , 35, 355-366	1.9	114
114	Deformation Microstructure and Deformation-Induced Martensite in Austenitic Fe-Cr-Ni Alloys Depending on Stacking Fault Energy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 1-7	2.3	109
113	Microwave assisted combustion synthesis of nanocrystalline yttria and its powder characteristics. <i>Powder Technology</i> , <b>2009</b> , 191, 309-314	5.2	79
112	Quantitative evaluation of spinodal decomposition in Fe-Cr by atom probe tomography and radial distribution function analysis. <i>Microscopy and Microanalysis</i> , <b>2013</b> , 19, 665-75	0.5	73
111	Combustion synthesis of Y2O3 and Yb\(\text{Y2O3}\). Journal of Materials Processing Technology, <b>2008</b> , 208, 415-	453	72
110	Load Partitioning and Strain-Induced Martensite Formation during Tensile Loading of a Metastable Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 1039-1048	2.3	61
109	Stepwise transformation behavior of the strain-induced martensitic transformation in a metastable stainless steel. <i>Scripta Materialia</i> , <b>2007</b> , 56, 213-216	5.6	56
108	In situ small-angle x-ray scattering study of nanostructure evolution during decomposition of arc evaporated TiAlN coatings. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 053114	3.4	52
107	Concurrent phase separation and clustering in the ferrite phase during low temperature stress aging of duplex stainless steel weldments. <i>Acta Materialia</i> , <b>2012</b> , 60, 5818-5827	8.4	47
106	Load partitioning between single bulk grains in a two-phase duplex stainless steel during tensile loading. <i>Acta Materialia</i> , <b>2010</b> , 58, 734-744	8.4	46
105	Direct Observation that Bainite can Grow Below MS. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 4984-4988	2.3	44
104	The 475 LC embrittlement in FeIOCr and FeIOCr (X=Ni, Cu, Mn) alloys studied by mechanical testing and atom probe tomography. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 574, 123-129	5.3	43
103	Nanostructure evolution and mechanical property changes during aging of a super duplex stainless steel at 300 °C. <i>Materials Science &amp; Discourse Microstructure and Processing</i> , <b>2015</b> , 647, 241-248	5.3	38
102	A phase-field and electron microscopy study of phase separation in Fe© ralloys. <i>Materials Science</i> & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 552-556	5.3	35
101	Synthesis and phase separation of (Ti,Zr)C. <i>Acta Materialia</i> , <b>2014</b> , 66, 209-218	8.4	34
100	Microstructural evolution and superplastic behavior of a fine-grained Mgtd alloy processed by constrained groove pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 754, 390-399	5.3	33

99	On the three-dimensional structure of WC grains in cemented carbides. Acta Materialia, 2013, 61, 4726	-487.343	33
98	Quantitative electron microscopy and physically based modelling of Cu precipitation in precipitation-hardening martensitic stainless steel 15-5 PH. <i>Materials and Design</i> , <b>2018</b> , 143, 141-149	8.1	30
97	A Transmission Electron Microscopy Study of Plate Martensite Formation in High-carbon Low Alloy Steels. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 373-379	9.1	30
96	Micromechanics and microstructure evolution during in situ uniaxial tensile loading of TRIP-assisted duplex stainless steels. <i>Materials Science &amp; Discontinuo A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 734, 281-290	5.3	29
95	Machine Learning to Predict the Martensite Start Temperature in Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 2081-2091	2.3	28
94	A phase-field study of the physical concepts of martensitic transformations in steels. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 538, 173-181	5.3	28
93	Initial clustering 🖟 key factor for phase separation kinetics in Fell r-based alloys. <i>Scripta Materialia</i> , <b>2014</b> , 75, 62-65	5.6	27
92	Exploring the relationship between the microstructure and strength of fresh and tempered martensite in a maraging stainless steel FellsCrBNi. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019</i> , 745, 420-428	5.3	27
91	High-Temperature Confocal Laser Scanning Microscopy Studies of Ferrite Formation in Inclusion-Engineered Steels: A Review. <i>Jom</i> , <b>2018</b> , 70, 2283-2295	2.1	26
90	A high-resolution analytical scanning transmission electron microscopy study of the early stages of spinodal decomposition in binary Fettr. <i>Materials Characterization</i> , <b>2015</b> , 109, 216-221	3.9	25
89	Self-organizing nanostructured lamellar (Ti,Zr)C [A superhard mixed carbide. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 51, 25-28	4.1	24
88	Effect of carbon activity and powder particle size on WC grain coarsening during sintering of cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2014</b> , 42, 30-35	4.1	24
87	Microstructure, grain size distribution and grain shape in WCITo alloys sintered at different carbon activities. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2014</b> , 43, 205-211	4.1	24
86	Recent Developments of Crystallographic Analysis Methods in the Scanning Electron Microscope for Applications in Metallurgy. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2018</b> , 43, 455-474	10.1	22
85	Spontaneous and Deformation-Induced Martensite in Austenitic Stainless Steels with Different Stability. <i>Steel Research International</i> , <b>2011</b> , 82, 337-345	1.6	22
84	Microstructure development in a high-nickel austenitic stainless steel using EBSD during in situ tensile deformation. <i>Materials Characterization</i> , <b>2018</b> , 135, 228-237	3.9	22
83	Heat treatment, microstructure and mechanical properties of a CMnAlP hot dip galvanizing TRIP steel. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 674, 151-157	5.3	21
82	Structural Characterization of Phase Separation in Fe-Cr: A Current Comparison of Experimental Methods. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5942-5952	2.3	21

81	Microstructure of Martensite in FeIII and its Implications for Modelling of Carbide Precipitation during Tempering. <i>ISIJ International</i> , <b>2014</b> , 54, 2649-2656	1.7	21
80	Comparing the deformation-induced martensitic transformation with the athermal martensitic transformation in Fe-Cr-Ni alloys. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 766, 131-139	5.7	21
79	The experimental phase diagram study of the binary polyols system erythritol-xylitol. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 174, 248-262	6.4	20
78	Effect of Zn addition on dynamic recrystallization behavior of Mg-2Gd alloy during high-temperature deformation. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 1200-1206	5.7	20
77	Effect of heat treatment above the miscibility gap on nanostructure formation due to spinodal decomposition in Fe-52.85 at.%Cr. <i>Acta Materialia</i> , <b>2018</b> , 145, 347-358	8.4	19
76	Investigation of Lath and Plate Martensite in a Carbon Steel. Solid State Phenomena, <b>2011</b> , 172-174, 61	-66.4	19
75	Elastic strain evolution and Emartensite formation in individual austenite grains during in situ loading of a metastable stainless steel. <i>Materials Letters</i> , <b>2008</b> , 62, 338-340	3.3	19
74	Effect of cooling rate after solution treatment on subsequent phase separation during aging of Fe-Cr alloys: A small-angle neutron scattering study. <i>Acta Materialia</i> , <b>2017</b> , 134, 221-229	8.4	19
73	Microstructure, texture, and strain-hardening behavior of extruded Mgtdln alloys. <i>Materials Science &amp; Microstructure and Processing</i> , <b>2020</b> , 772, 138833	5.3	18
72	Combination of In Situ Microscopy and Calorimetry to Study Austenite Decomposition in Inclusion Engineered Steels. <i>Steel Research International</i> , <b>2016</b> , 87, 10-14	1.6	18
71	Martensite formation during incremental cooling of Fe-Cr-Ni alloys: An in-situ bulk X-ray study of the grain-averaged and single-grain behavior. <i>Scripta Materialia</i> , <b>2017</b> , 136, 124-127	5.6	17
70	Early stages of spinodal decomposition in Fell resolved by in-situ small-angle neutron scattering. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 061911	3.4	17
69	Quantitative modeling and experimental verification of carbide precipitation in a martensitic FeB.16wt%CA.0wt%Cr alloy. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2016</b> , 53, 39-48	1.9	17
68	Ferrite Formation Dynamics and Microstructure Due to Inclusion Engineering in Low-Alloy Steels by Ti2O3 and TiN Addition. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 2133-2147	2.5	17
67	Precipitation of multiple carbides in martensitic CrMoV steels - experimental analysis and exploration of alloying strategy through thermodynamic calculations. <i>Materialia</i> , <b>2020</b> , 9, 100630	3.2	16
66	On the Symmetry Among the Diffusional Transformation Products of Austenite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 1558-1574	2.3	16
65	Nanostructure, microstructure and mechanical properties of duplex stainless steels 25Cr-7 Ni and 22Cr-5Ni (wt.%) aged at 325 °C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 512-520	5.3	14
64	Direct atom probe tomography observations of concentration fluctuations in Fell solid solution. <i>Scripta Materialia</i> , <b>2015</b> , 98, 13-15	5.6	14

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63	Effect of solution treatment on spinodal decomposition during aging of an Fe-46.5 at.% Cr alloy. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 326-335	4.3	14	
62	Microstructure evolution during tempering of martensitic Fell larger alloys at 700 lb. Journal of Materials Science, 2018, 53, 6939-6950	4.3	12	
61	Porosity and shape of airborne wear microparticles generated by sliding contact between a low-metallic friction material and a cast iron. <i>Journal of Aerosol Science</i> , <b>2017</b> , 113, 130-140	4.3	12	
60	Dynamic Precipitation Behavior of Secondary M7C3 Carbides in Ti-alloyed High Chromium Cast Iron. <i>ISIJ International</i> , <b>2013</b> , 53, 1237-1244	1.7	12	
59	Modelling of the Fraction of Martensite in Low-alloy Steels. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S561	-S <sub>1</sub> 5,464	11	
58	A Microstructural Investigation of Athermal and Deformation-induced Martensite in Fe-Cr-Ni Alloys. <i>Materials Today: Proceedings</i> , <b>2015</b> , 2, S687-S690	1.4	11	
57	Effect of Heat Treatment on Microstructure and Mechanical Properties of Ti-alloyed Hypereutectic High Chromium Cast Iron. <i>ISIJ International</i> , <b>2012</b> , 52, 2288-2294	1.7	11	
56	Effect of Zn content on the microstructural stability and grain growth kinetics of fine-grained extruded MgtdZn alloys. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 831, 154766	5.7	10	
55	Effect of Solute Silicon on the Lattice Parameter of Ferrite in Ductile Irons. <i>ISIJ International</i> , <b>2014</b> , 54, 248-250	1.7	10	
54	Reverse Martensitic Transformation and Resulting Microstructure in a Cold Rolled Metastable Austenitic Stainless Steel. <i>Steel Research International</i> , <b>2008</b> , 79, 433-439	1.6	10	
53	Microstructure evolution during phase separation in Ti-Zr-C. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 61, 238-248	4.1	10	
52	A comparative study of microstructure and magnetic properties of a NiFe cemented carbide: Influence of carbon content. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 80, 18	1-4:87	10	
51	LangerBchwartzKampmannWagner precipitation simulations: assessment of models and materials design application for Cu precipitation in PH stainless steels. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 2650-2671	4.3	10	
50	EBSD analysis of surface and bulk microstructure evolution during interrupted tensile testing of a Fe-19Cr-12Ni alloy. <i>Materials Characterization</i> , <b>2018</b> , 141, 8-18	3.9	9	
49	Microstructure and superplasticity of Mg@Gd@Zn alloys processed by equal channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 808, 140921	5.3	9	
48	Tailoring the texture of an extruded Mg sheet through constrained groove pressing for achieving low mechanical anisotropy and high yield strength. <i>Scripta Materialia</i> , <b>2020</b> , 186, 253-258	5.6	8	
47	Quantum rod-sensitized solar cells. <i>ChemSusChem</i> , <b>2011</b> , 4, 1741-4	8.3	8	
46	Predicting strain-induced martensite in austenitic steels by combining physical modelling and machine learning. <i>Materials and Design</i> , <b>2021</b> , 197, 109199	8.1	8	

45	Mechanical Behavior of Fresh and Tempered Martensite in a CrMoV-Alloyed Steel Explained by Microstructural Evolution and Strength Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 5077-5087	2.3	7
44	A Thermodynamic-Based Model to Predict the Fraction of Martensite in Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 4404-4410	2.3	6
43	Experimental study of the Burface of austenitic stainless steels. <i>Acta Materialia</i> , <b>2019</b> , 173, 34-43	8.4	5
42	Small-angle neutron scattering quantification of phase separation and the corresponding embrittlement of a super duplex stainless steel after long-term aging at 300°C. <i>Materialia</i> , <b>2020</b> , 12, 10	0 <del>37</del> 1	5
41	On coarsening of cementite during tempering of martensitic steels. <i>Materials Science and Technology</i> , <b>2020</b> , 36, 887-893	1.5	5
40	Effect of carbon content on the Curie temperature of WC-NiFe cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 78, 27-31	4.1	5
39	Influence of alloying elements on Ni distribution in PM steels. <i>Powder Metallurgy</i> , <b>2014</b> , 57, 111-118	1.9	5
38	Early stages of cementite precipitation during tempering of 1CIICr martensitic steel. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 9222-9234	4.3	4
37	Effect of synthesis temperature and aging on the microstructure and hardness of Ti-Zr-C. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 73, 99-105	4.1	4
36	In-Situ High-Energy X-ray Diffraction Study of Austenite Decomposition During Rapid Cooling and Isothermal Holding in Two HSLA Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 1812-1825	2.3	4
35	On the role of transmission electron microscopy for precipitation analysis in metallic materials. <i>Critical Reviews in Solid State and Materials Sciences</i> ,1-27	10.1	4
34	Cu precipitation-mediated formation of reverted austenite during ageing of a 15B PH stainless steel. <i>Scripta Materialia</i> , <b>2021</b> , 202, 114007	5.6	4
33	Very-small angle neutron scattering study on grain coarsening inhibition by V-doping of WC-Co composites. <i>Scripta Materialia</i> , <b>2019</b> , 173, 106-109	5.6	3
32	Evaluating magnetic properties of composites from model alloys [Application to alternative binder cemented carbides. <i>Scripta Materialia</i> , <b>2019</b> , 168, 96-99	5.6	3
31	Liquid Phase Sintering of (Ti,Zr)C with WC-Co. <i>Materials</i> , <b>2017</b> , 10,	3.5	3
30	Cu redistribution during sintering of FeIICu and FeIICuIIIGC compacts. <i>Powder Metallurgy</i> , <b>2014</b> , 57, 373-379	1.9	3
29	Observations of copper clustering in a 25Cr-7Ni super duplex stainless steel during low-temperature aging under load. <i>Philosophical Magazine Letters</i> , <b>2012</b> , 1-8	1	3
28	Effect of Tempering on the Bainitic Microstructure Evolution Correlated with the Hardness in a Low-Alloy Medium-Carbon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> <b>2020</b> 51 6470-6481	2.3	3

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27	Nuclear and magnetic small-angle neutron scattering in self-organizing nanostructured Fe1[Ir alloys. <i>Materials Characterization</i> , <b>2020</b> , 164, 110347	3.9	2
26	Evolution of Residual Strains in Metastable Austenitic Stainless Steels and the Accompanying Strain Induced Martensitic Transformation. <i>Materials Science Forum</i> , <b>2006</b> , 524-525, 821-826	0.4	2
25	Residual Stress Evolution during Decomposition of Ti(1-x)Al(x)N Coatings Using High-Energy X-Rays. <i>Materials Science Forum</i> , <b>2006</b> , 524-525, 619-624	0.4	2
24	In Situ Bulk Observations and Ab Initio Calculations Revealing the Temperature Dependence of Stacking Fault Energy in Fettria Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 5357	2.3	2
23	Initial atmospheric corrosion studies of copper from macroscale to nanoscale in a simulated indoor atmospheric environment. <i>Corrosion Science</i> , <b>2021</b> , 195, 109995	6.8	2
22	On the Three-Dimensional Microstructure of Martensite in Carbon Steels <b>2012</b> , 19-24		2
21	Nanostructure in Fe0.65Cr0.35 close to the upper limit of the miscibility gap. <i>Scripta Materialia</i> , <b>2020</b> , 180, 62-65	5.6	2
20	Prediction of Influences of Co, Ni, and W Elements on Carbide Precipitation Behavior in FeIIVIrMo Based High Speed Steels. <i>Steel Research International</i> , <b>2018</b> , 89, 1800172	1.6	2
19	Quantitative Nanostructure and Hardness Evolution in Duplex Stainless Steels: Under Real Low-Temperature Service Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2022</b> , 53, 723	2.3	1
18	Correlating temperature-dependent stacking fault energy and in-situ bulk deformation behavior for a metastable austenitic stainless steel. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2021</b> , 832, 142403	5.3	1
17	High-Resolution Microscopical Studies of Contact Killing Mechanisms on Copper-Based Surfaces. <i>ACS Applied Materials &amp; ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	9.5	1
16	3D Analysis of Phase Separation in Ferritic Stainless Steels <b>2012</b> , 221-226		1
15	Quantification of nano-scale interface structures to guide mechanistic modelling of WC grain coarsening inhibition in V-doped hard metals. <i>Materials and Design</i> , <b>2021</b> , 207, 109825	8.1	1
14	A transmission electron microscopy study of discontinuous precipitation in the high misfit system (Ti,Zr)C. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101281	2.5	O
13	Effect of Si on bainitic transformation kinetics in steels explained by carbon partitioning, carbide formation, dislocation densities, and thermodynamic conditions. <i>Materials Characterization</i> , <b>2022</b> , 185, 111774	3.9	О
12	Effect of Stress on Spinodal Decomposition in Binary Alloys: Atomistic Modeling and Atom Probe Tomography. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> ,1	2.3	O
11	An Experimental Assessment of the & Emiscibility Gap in Fe-Cr. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 711-718	0.3	О
10	Precision Thermal Treatments, Atom Probe Characterization, and Modeling to Describe the Fe-Cr Metastable Miscibility Gap. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and</i> <i>Materials Science</i> , <b>2021</b> , 52, 1453-1464	2.3	Ο

9	Revealing the Unexpected Two Variant Pairing Shifts Due to Temperature Change in a Single Bainitic Medium Carbon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 4546-4557	2.3	O
8	Continuum plasticity modelling of work hardening for precipitation-hardened martensitic steel guided by atom probe tomography. <i>Materials and Design</i> , <b>2022</b> , 215, 110463	8.1	O
7	Revealing the interdependence of microstructure evolution, micromechanics and macroscopic mechanical behavior of multi-phase medium Mn steels. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 839, 142857	5.3	O
6	Carbide Precipitation during Processing of Two Low-Alloyed Martensitic Tool Steels with 0.11 and 0.17 V/Mo Ratios Studied by Neutron Scattering, Electron Microscopy and Atom Probe. <i>Metals</i> , <b>2022</b> , 12, 758	2.3	O
5	Behaviour of master alloy during sintering of PM steels: redistribution and dimensional variations. <i>Powder Metallurgy</i> , <b>2015</b> , 58, 133-141	1.9	
4	Nonlinearity in mass spectrometry for quantitative multi-component gas analysis in reaction processes <i>Analytica Chimica Acta</i> , <b>2022</b> , 1194, 339412	6.6	
3	On the Three-Dimensional Microstructure of Martensite in Carbon Steels19-24		
2	3D Analysis of Phase Separation in Ferritic Stainless Steels221-226		
1	Effect of Cooling Rate after Solution Treatment on Subsequent Phase Separation Evolution in Super Duplex Stainless Steel 25Cr-7Ni (wt.%). <i>Metals</i> , <b>2022</b> , 12, 890	2.3	