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Hot working of commercial Ti6Al4V with an equiaxed ?? microstructure: materials modeling consideration

DOI: 10.1016/s0921-5093(00)00741-3 Materials Science & Samp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 284, 184-194.

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#	Paper	IF	Citations
370	Influence of oxygen content on the forging response of equiaxed (H)preform of TiBALEV: commercial vs. ELI grade. <i>Journal of Materials Processing Technology</i> , 2001 , 108, 320-327	5.3	66
369	A Study of Beta Processing of Ti-6Al-4V: Is it Trivial?. 2001 , 123, 355-360		23
368	Development and validation of a processing map for zirconium alloys. 2002 , 10, 503-520		30
367	Microstructural evolution of a TiBALEV alloy during thermomechanical processing. <i>Materials Science & Microstructure and Processing</i> , 2002 , 327, 233-245	5.3	312
366	Flow stress behavior and deformation characteristics of Ti-3Al-5V-5Mo compressed at elevated temperatures. 2002 , 23, 451-457		88
365	Characterization of hot deformation behaviour of Zrū.5Nb in [phase. 2002 , 306, 126-133		40
364	On the relationship between the intrinsic hot workability parameters of DMM and PRM. 2003 , 32, 185-	193	4
363	Hot deformation characteristics of Ti-6Al-4V. 2003 , 94, 1006-1011		2
362	Analysis of high flow stress and microstructural evolution of TC6 titanium alloy during isothermal forging. 2004 , 20, 1257-1260		3
361	Workability of TiBAlBV alloy at high temperatures and strain rates. 2004, 58, 3622-3629		101
360	Identification of flow instabilities in the processing maps of AISI 304 stainless steel. <i>Journal of Materials Processing Technology</i> , 2005 , 166, 268-278	5.3	78
359	Deformation behavior of TC6 alloy in isothermal forging. <i>Journal of Materials Engineering and Performance</i> , 2005 , 14, 671-676	1.6	11
358	Effect of phase transformations on laser forming of TiBAlAV alloy. 2005, 98, 013518		61
357	Superplastic forming of bellows expansion joints made of titanium alloys. <i>Journal of Materials Processing Technology</i> , 2006 , 178, 24-28	5.3	43
356	Low-temperature superplasticity of ultra-fine-grained Ti-6Al-4V processed by equal-channel angular pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 381-391	2.3	84
355	Recrystallization during Beta Working of IMI834. 2006 , 15-17, 965-969		2
354	Superplastic Forming and Diffusion Bonding for Four-Layer Sheets Structure of Nickel-Base Superalloy. 2007 , 551-552, 163-168		

(2008-2007)

353	Influence of Sc on high temperature strengthening behavior of Ti-6Al-4V alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2007 , 17, 1212-1219	3.3	10
352	Diffusional Transformations. 2007 , 555-716		2
351	Flow stress prediction during hot working of near-titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 447, 99-110	5.3	85
350	Characterization of hot deformation behavior of ZrllNbllSn alloy. 2007, 362, 75-86		41
349	Dynamic recovery and recrystallization in titanium alloys by hot deformation. 2007, 59, 64-67		107
348	Microstructures and Mechanical Properties Prediction for Ti-Based Alloys. <i>Journal of Materials Engineering and Performance</i> , 2007 , 16, 680-684	1.6	8
347	TiBALEV: Deformation map and modelisation of tensile behaviour. 2008, 29, 1090-1098		58
346	Processing maps of Ti662 unreinforced and reinforced with TiC particles according to dynamic models. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 127-137	5.3	37
345	High temperature deformation behavior of a near alpha Ti600 titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 492, 24-28	5.3	77
344	Dynamic and metadynamic recrystallization of Hastelloy X superalloy. <i>Journal of Materials Science</i> , 2008 , 43, 3717-3724	4.3	22
343	Low-Temperature Coarsening and Plastic Flow Behavior of an Alpha/Beta Titanium Billet Material with an Ultrafine Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 2949-2964	2.3	44
342	Hot Deformation Mechanism and Process Optimization for Ti-Alloy Ti-6.5Al-3.5Mo-1.5Zr-0.3Si during ⊞IForging Based on Murty Criterion. 2008 , 37, 577-583		13
341	Forming behavior and workability of Hastelloy X superalloy during hot deformation. <i>Materials Science & Camp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 641-647	5.3	56
340	Hot compressive deformation behavior and microstructure evolution of TiBAlaZraMoaV alloy at 1073K. <i>Materials Science & Discordance and Processing</i> , 2008 , 490, 113-116	5.3	14
339	High temperature deformation behavior of TiBAlBV alloy with and equiaxed microstructure: a neural networks analysis. <i>Metals and Materials International</i> , 2008 , 14, 213-221	2.4	20
338	Deformation characteristics of submicrocrystalline TiBAlAV. Scripta Materialia, 2008, 58, 1094-1097	5.6	33
337	Hot deformation mechanism and microstructure evolution of TC11 titanium alloy in Ifield. <i>Transactions of Nonferrous Metals Society of China</i> , 2008 , 18, 1021-1027	3.3	42
336	Neural network modelling of flow stress in TiBAlAV alloy with equiaxed and WidmanstEten microstructures. 2008 , 24, 294-301		26

INFLUENCE OF INITIAL MICROSTRUCTURE ON HOT WORKABILITY OF Ti-6Al-4V ALLOY. 2009, 23, 808-813 335 Constitutive Modelling of Mechanical Behaviour of a Ti-Alloy, Applicable in Metal Cutting. 2009, 334 83-86, 661-671 Microstructure evolution during deformation of a near-Etitanium alloy with different initial 5.6 51 333 structures in the two-phase region. Scripta Materialia, 2009, 61, 419-422 Flow softening and microstructural evolution of TC11 titanium alloy during hot deformation. 332 104 5.3 Journal of Materials Processing Technology, 2009, 209, 1988-1994 Effect of the strain on the deformation behavior of isothermally compressed TiBALBV alloy. Materials Science & Digineering A: Structural Materials: Properties, Microstructure and Processing 331 5.3 77 , 2009, 505, 88-95 Characteristics of hot compression behavior of TiB.5AlB.5Mol.5ZrD.3Si alloy with an equiaxed microstructure. Materials Science & Engineering A: Structural Materials: Properties, 330 5.3 75 Microstructure and Processing, 2009, 505, 136-143 Effect of 0.16 wt% hydrogen addition on high temperature deformation behavior of the Ti600 titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure 329 15 5.3 and Processing, 2009, 513-514, 228-232 The dislocation sub-structure evolution during hot compressive deformation of Ti-6Al-2Zr-1Mo-1V 328 alloy at 800 °C. 2009, 24, 202-205 Hot deformation behavior and microstructure evaluation of hydrogenated Ti-6Al-4V matrix 22 327 composite. 2009, 34, 9266-9273 High temperature deformation behavior of \oplus Eype biomedical titanium alloy TiBAl \square Nb. Materials Science & Director A: Structural Materials: Properties, Microstructure and Processing 326 5.3 66 , **2009**, 499, 252-256 Effect of the strain on processing maps of titanium alloys in isothermal compression. Materials Science & Direction A: Structural Materials: Properties, Microstructure and Processing, 2009, 325 5.3 49 504, 90-98 Calcium phosphate coatings for bio-implant applications: Materials, performance factors, and 324 475 methodologies. **2009**, 66, 1-70 Hot working of TiBAlBMoDZrD.3Si alloy with lamellar ⊞Istarting structure using processing 323 119 map. 2009, 30, 1625-1631 Mechanical behavior of titanium alloy Ti-6Al-4V with unprepared microstructure under jumpwise 322 9 variations of the strain rate in the superplastic state. 2009, 44, 951-958 Evolution of the microstructure and hardness of the TiBi alloys during high temperature 321 5.7 45 heat-treatment. Journal of Alloys and Compounds, 2009, 479, 246-251 The high temperature deformation behavior and microstructure of TC21 titanium alloy. Materials 320 Science & Direction A: Structural Materials: Properties, Microstructure and Processing, 2010, 28 5.3 527, 5360-5367 Identification of the optimal (#Inforging process parameters of TiB.5AlB.5MoII.5ZrII.3Si based on processing-maps. Materials Science & Engineering A: Structural Materials: Properties, 319 5.3 20 Microstructure and Processing, 2010, 527, 7279-7285 FE simulation and experimental considerations on TI alloy superplastic forming for aerospace 8 318 applications. **2010**, 3, 41-46

(2011-2010)

317	Hot working of Ti-17 titanium alloy with lamellar starting structure using 3-D processing maps. Journal of Materials Science, 2010 , 45, 5883-5891	4.3	28
316	Hot deformation of 15-5 PH stainless steel. <i>Materials Science & Diplication of 15-5 PH stainless steel</i> . <i>Materials Science & Diplication of 15-5 PH stainless steel</i> . <i>Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1052-1057	5.3	57
315	Deformation behavior in isothermal compression of the TC11 titanium alloy. 2010 , 31, 2851-2857		45
314	Effect of hot working on flow behavior of TiBALBV alloy in single phase and two phase regions. 2010 , 31, 3599-3604		125
313	The optimal determination of forging process parameters for TiB.5AlB.5MoII.5ZrII.3Si alloy with thick lamellar microstructure in two phase field based on P-map. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 370-377	5.3	25
312	Improvement in Hot Workability of Titanium Matrix Composite by Thermohydrogen Treatment. 2010 , 654-656, 835-838		1
311	Constants for hot deformation constitutive models for recent experimental data. 2010 , 15, 260-266		67
310	Microstructure and Mechanical Properties of EMartensite Type Ti-V-Al Alloy after Cold- or Hot Working Process. 2010 , 436, 171-177		3
309	Hot Deformation Behavior of Near-日i-Fe Alloy in (田)Two-Phase Region with Different Fe Content. 2010 , 638-642, 310-314		
308	Modeling of titanium alloys by using artificial neural networks. 2010 ,		
308 307	Modeling of titanium alloys by using artificial neural networks. 2010 , Effect of yttrium addition on grain growth of ⊞and ⊞Litanium alloys. 2010 , 240, 012170		6
		22	6
307	Effect of yttrium addition on grain growth of ⊞and ⊞ltitanium alloys. 2010 , 240, 012170	22	0
3 ⁰ 7	Effect of yttrium addition on grain growth of pland elititanium alloys. 2010, 240, 012170 Effect of microstructural morphology on the mechanical properties of titanium alloys. 2010, 240, 0120 Evaluation of low strain rate constitutive equation of 7075 aluminium alloy at high temperature.	22	8
307 306 305	Effect of yttrium addition on grain growth of pland elititanium alloys. 2010, 240, 012170 Effect of microstructural morphology on the mechanical properties of titanium alloys. 2010, 240, 0120 Evaluation of low strain rate constitutive equation of 7075 aluminium alloy at high temperature. 2011, 27, 1067-1072 Flow behaviour and microstructural evolution of Ti-17 alloy with lamellar microstructure during hot	3.3	8
307 306 305 304	Effect of yttrium addition on grain growth of pland alloys. 2010, 240, 012170 Effect of microstructural morphology on the mechanical properties of titanium alloys. 2010, 240, 0120 Evaluation of low strain rate constitutive equation of 7075 aluminium alloy at high temperature. 2011, 27, 1067-1072 Flow behaviour and microstructural evolution of Ti-17 alloy with lamellar microstructure during hot deformation in alphase field. 2011, 27, 21-28 Adiabatic shear sensitivity of ductile metal based on gradient-dependent JOHNSON-COOK model.		8 7 18
307 306 305 304 303	Effect of yttrium addition on grain growth of Hand Hittanium alloys. 2010, 240, 012170 Effect of microstructural morphology on the mechanical properties of titanium alloys. 2010, 240, 0120 Evaluation of low strain rate constitutive equation of 7075 aluminium alloy at high temperature. 2011, 27, 1067-1072 Flow behaviour and microstructural evolution of Ti-17 alloy with lamellar microstructure during hot deformation in Hiphase field. 2011, 27, 21-28 Adiabatic shear sensitivity of ductile metal based on gradient-dependent JOHNSON-COOK model. Transactions of Nonferrous Metals Society of China, 2011, 21, 1355-1361 Effect of hot working and post-deformation heat treatment on microstructure and tensile	3.3	8 7 18

299	Optimization of forging process parameters of Ti600 alloy by using processing map. <i>Materials Science & Microstructure and Processing</i> , 2011 , 529, 393-400	5.3	36
298	On the influence of processing parameters on microstructural evolution of a near alpha titanium alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 530, 135-143	5.3	34
297	The correlation between flow behavior and microstructural evolution of 7050 aluminum alloy. <i>Materials Science & Discourse and Processing</i> , 2011 , 530, 559-564	5.3	30
296	Investigation of mechanical behavior of quenched TiBAlBV alloy by microindentation. <i>Materials Characterization</i> , 2011 , 62, 287-293	3.9	42
295	Prediction of hot compression flow curves of TiBAlaV alloy in ⊕phase region. 2011 , 32, 4689-4695		39
294	Prediction of flow stress in isothermal compression of Ti60 alloy using an adaptive network-based fuzzy inference system. 2011 , 32, 4676-4683		20
293	Formation of Ultrafine-Grained Microstructure of TiBAlBV Alloy by Hot Deformation of B Martensite Starting Microstructure. 2011 , 13, 470-474		15
292	High-temperature deformation behavior of Ti60 titanium alloy. <i>Materials Science & Dience amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4068-4074	5.3	102
291	Constitutive equations for elevated temperature flow stress of TiBAlBV alloy considering the effect of strain. 2011 , 32, 1144-1151		190
290	Microindentation study of TiBAl型V alloy. 2011 , 32, 2756-2762		31
290 289	Microindentation study of TiBAlav alloy. 2011 , 32, 2756-2762 Microstructural evolution through hot working of the single-phase and two-phase Ti-6Al-4V alloy. <i>International Journal of Materials Research</i> , 2011 , 102, 41-47	0.5	31
	Microstructural evolution through hot working of the single-phase and two-phase Ti-6Al-4V alloy.		11
289	Microstructural evolution through hot working of the single-phase and two-phase Ti-6Al-4V alloy. <i>International Journal of Materials Research</i> , 2011 , 102, 41-47		11
289	Microstructural evolution through hot working of the single-phase and two-phase Ti-6Al-4V alloy. <i>International Journal of Materials Research</i> , 2011 , 102, 41-47 Hot Workability Map for Near-Eritanium Alloy Ti-5.6Al-4.8Sn-2Zr-1Mo-0.35Si-0.7Nd. 2012 , 482-484, 1453 Determination of the Mechanism of Restoration in Subtransus Hot Deformation of Ti-6Al-4V. 2012 ,		11
289 288 287	Microstructural evolution through hot working of the single-phase and two-phase Ti-6Al-4V alloy. <i>International Journal of Materials Research</i> , 2011 , 102, 41-47 Hot Workability Map for Near-Eritanium Alloy Ti-5.6Al-4.8Sn-2Zr-1Mo-0.35Si-0.7Nd. 2012 , 482-484, 1453 Determination of the Mechanism of Restoration in Subtransus Hot Deformation of Ti-6Al-4V. 2012 , 706-709, 252-257 New Type of Ultra-Fine Grained Microstructure in Ti-6Al-4V Alloy for Enhancing Superplasticity.	3-1456	11
289 288 287 286	Microstructural evolution through hot working of the single-phase and two-phase Ti-6Al-4V alloy. <i>International Journal of Materials Research</i> , 2011 , 102, 41-47 Hot Workability Map for Near-Fitanium Alloy Ti-5.6Al-4.8Sn-2Zr-1Mo-0.35Si-0.7Nd. 2012 , 482-484, 1453 Determination of the Mechanism of Restoration in Subtransus Hot Deformation of Ti-6Al-4V. 2012 , 706-709, 252-257 New Type of Ultra-Fine Grained Microstructure in Ti-6Al-4V Alloy for Enhancing Superplasticity. 2012 , 735, 322-326	3-1456	11 4
289 288 287 286	Microstructural evolution through hot working of the single-phase and two-phase Ti-6Al-4V alloy. <i>International Journal of Materials Research</i> , 2011 , 102, 41-47 Hot Workability Map for Near-Eritanium Alloy Ti-5.6Al-4.8Sn-2Zr-1Mo-0.35Si-0.7Nd. 2012 , 482-484, 1453 Determination of the Mechanism of Restoration in Subtransus Hot Deformation of Ti-6Al-4V. 2012 , 706-709, 252-257 New Type of Ultra-Fine Grained Microstructure in Ti-6Al-4V Alloy for Enhancing Superplasticity. 2012 , 735, 322-326 Microstructure Evolution of Allotropic Materials during Thermomechanical Processing. 2012 , 710, 93-10. High Temperature Deformation Behavior of Ti-7333 Titanium Alloy and its Flow Stress Model. 2012 ,	3-1456	11 4 4

281	Flow behavior modeling of the 7050 aluminum alloy at elevated temperatures considering the compensation of strain. 2012 , 42, 369-377		79	
280	Effect of processing parameters on hot deformation behavior and microstructural evolution during hot compression of Ti40 titanium alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 384-391	5-3	26	
279	Effect of processing parameters on the hot deformation behavior of as-cast TC21 titanium alloy. 2012 , 33, 264-272		48	
278	The deformation behavior in isothermal compression of 300M ultrahigh-strength steel. <i>Materials Science & Materials A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 314-322	5.3	33	
277	The evolution of microstructure of TiBAlBV alloy during concurrent hot deformation and phase transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 163-167	5.3	48	
276	The deformation instability and stability analysis of Ti-17 powder compact during thermo-mechanical processing. <i>Materials Science & Dineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 193-199	5.3	5	
275	TiBAlBV alloy with an ultrafine-grained microstructure exhibiting low-temperatureBigh-strain-rate superplasticity. 2013 , 98, 209-212		59	
274	Physical Simulation of Deformation and Microstructure Evolution During Friction Stir Processing of Ti-6Al-4V Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 3577-3591	2.3	15	
273	Frequent Occurrence of Discontinuous Dynamic Recrystallization in Ti-6Al-4V Alloy with A Martensite Starting Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 3245-3260	2.3	67	
272	A Modified Constitutive Equation for Aluminum Alloy Reinforced by Silicon Carbide Particles at Elevated Temperature. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 2641-2655	1.6	9	
271	Prediction of flow stress in a wide temperature range involving phase transformation for as-cast TiBAlaZraMoaV alloy by artificial neural network. 2013 , 50, 51-61		65	
270	Crystal plasticity modeling of the dynamic recrystallization of two-phase titanium alloys during isothermal processing. 2013 , 51, 271-291		58	
269	Micromechanical behavior study of ⊕hase with different morphologies of TiBAlaV alloy by microindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 105-113	5.3	39	
268	An experimental study of deformation mechanism and microstructure evolution during hot deformation of TiBAlaZraMoaV alloy. 2013 , 46, 38-48		83	
267	Characterization of high-temperature deformation behavior of as-cast Ti60 titanium alloy using processing map. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2013 , 571, 116-122	5.3	55	
266	The influence of temperature and strain rate on the deformation response and microstructural evolution during hot compression of a titanium alloy TiBAlBVD.1B. <i>Journal of Alloys and Compounds</i> , 2013 , 548, 110-125	5.7	123	
265	A modified constitutive equation for elevated temperature flow behavior of TiBALEV alloy based on double multiple nonlinear regression. <i>Materials Science & Dine Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 260-270	5.3	31	
264	Substructure and texture evolution and flow behavior of TA15 titanium alloy compressed in the alpha+beta two-phase field. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 2033-2041	5.3	15	

263	Characterization of hot deformation behavior of a new near beta titanium alloy: Ti-7333. 2013 , 49, 945-	952	117
262	Hot deformation behavior of ZrTiAlV alloy with a coarse grain structure in the Iphase field. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 577, 218-224	5.3	15
261	Hot deformation behavior of ZrūNb alloy: Characterization by processing map. 2013, 440, 136-142		33
260	Engineering biocompatible implant surfaces: Part I: Materials and surfaces. 2013 , 58, 261-326		506
259	Comparative investigation on the modified ZerilliArmstrong model and Arrhenius-type model to predict the elevated-temperature flow behaviour of 7050 aluminium alloy. 2013 , 71, 56-65		48
258	Hot Deformation Behavior of TiBAlBV Alloy in IPhase Field and Low Strain Rate. 2013, 2, 13-20		14
257	Tensile Testing of Ti-6Al-4V Alloy Superplasticity. 2013 , 762, 392-397		4
256	Warm Deformation Behavior of Ti-6Al-4V Alloy at Strain Rate of 100s 1 . 2013 , 1355-1362		
255	Effect of initial grain size on the hot deformation behavior of 47Zr\delta5Ti\textbf{B}Al\textbf{B}V alloy. 2014, 454, 413-420		12
254	High Temperature Deformation Behavior and Dynamic Recrystallization Law of 33Mn2V Steel for Oil Well Tube. 2014 , 511-512, 63-69		
253	Study on Hot Deformation Behavior of a New Titanium Alloy. 2014 , 644-650, 4872-4875		
252	Analysis of Thickness Strain Prediction in Warm Deep Drawing of Ti-6Al-4V Alloy. 2014 , 980, 52-56		
251	Investigation of Microstructural Uniformity During Isothermal Forging of Ti-6Al-4V. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 4411-4420	1.6	6
250	Influence of Geometrical Ratios in Forgeability of Complex Shapes during Hot Forging of Ti-6Al-4V Titanium Alloy. 2014 , 81, 516-521		2
249	Crystallographic texture and microstructure evolution during hot compression of TiBAL■VD.1B alloy in the (⊕ Pregime. 2014 , 94, 358-380		17
248	Hot Deformation Behavior of Ti-6Al-4V Alloy with a Transitional Microstructure in the Isothermal Hot Compression. 2014 , 1019, 273-279		3
247	FEM simulation of microstructure refinement during severe deformation. 2014 , 63, 012033		2
246	Experimental analysis and modeling of the anisotropic response of titanium alloy Ti-X for quasi-static loading at room temperature. 2014 , 7, 259-273		11

(2015-2014)

245	Ultrafine Grain Formation in a Ti-6Al-4V Alloy by Thermomechanical Processing of a Martensitic Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2659-2671	2.3	59
244	Study on the hot deformation behavior of TC4-DT alloy with equiaxed #Istarting structure based on processing map. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 605, 80-88	5.3	70
243	Effect of processing parameters on hot deformation behavior and microstructural evolution during hot compression of as-cast Ti60 titanium alloy. <i>Materials Science & Discourse Materials Properties, Microstructure and Processing</i> , 2014 , 593, 16-23	5.3	29
242	The origins of flow softening during high-temperature deformation of a TiBAlaV alloy with a lamellar microstructure. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 126-129	5.7	56
241	Processing maps for hot working of 47Zr\(\textit{B}\)5Ti\(\textit{B}\)Al\(\textit{B}\)V alloy. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 171-177	5.3	19
240	Hot working and geometric dynamic recrystallisation behaviour of a near-titanium alloy with acicular microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 600, 135-144	5.3	22
239	Characterization of hot deformation behavior of a biomedical titanium alloy TLM. <i>Materials Science</i> & <i>amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 598, 236-243	5.3	21
238	The mechanism of flow softening in subtransus hot working of two-phase titanium alloy with equiaxed structure. 2014 , 59, 2859-2867		11
237	A Preliminary Study of Deformation Behavior of Friction Stir Welded Ti-6Al-4V. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 3027-3033	1.6	12
236	Development of Constitutive Equation and Processing Maps for IN706 Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2014 , 27, 198-204	2.5	4
235	Hot deformation behavior of Ti00Zr0.5Al0V alloy in the Hand single phase field. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 ,	5.3	35
	609, 226-234	<i>J J</i>	
234	Comparative study of constitutive modeling for TiBAlaV alloy at low strain rates and elevated temperatures. 2014 , 55, 999-1005		113
234	Comparative study of constitutive modeling for TiBAlBV alloy at low strain rates and elevated	5.7	113 70
	Comparative study of constitutive modeling for TiBAlBV alloy at low strain rates and elevated temperatures. 2014 , 55, 999-1005 Hot deformation behavior and processing map of a powder metallurgy TiB2AlB5Nb alloy. <i>Journal</i>		
233	Comparative study of constitutive modeling for TiBAlaV alloy at low strain rates and elevated temperatures. 2014, 55, 999-1005 Hot deformation behavior and processing map of a powder metallurgy Tia2Ala5Nb alloy. Journal of Alloys and Compounds, 2014, 600, 215-221 Deformation behavior in the isothermal compression of TiBAlaMoBVaCraFe alloy. Materials Science & Structural Materials: Properties, Microstructure and Processing, 2014,	5.7	70
233	Comparative study of constitutive modeling for TiBAlaV alloy at low strain rates and elevated temperatures. 2014, 55, 999-1005 Hot deformation behavior and processing map of a powder metallurgy Tia2Ala5Nb alloy. Journal of Alloys and Compounds, 2014, 600, 215-221 Deformation behavior in the isothermal compression of TiBAlaMoBVaCraFe alloy. Materials Science & Sc	5.7	70
233232231	Comparative study of constitutive modeling for TiBAlaV alloy at low strain rates and elevated temperatures. 2014, 55, 999-1005 Hot deformation behavior and processing map of a powder metallurgy Tia2Ala5Nb alloy. Journal of Alloys and Compounds, 2014, 600, 215-221 Deformation behavior in the isothermal compression of TiBAlaMoBVaCraFe alloy. Materials Science & Deformation A: Structural Materials: Properties, Microstructure and Processing, 2014, 589, 15-22 Additive Manufacturing of Metals via Selective Laser Melting: Process Aspects and Material Developments. 2015, 85-116 Hot deformation behavior and the processing map of ZraloBe alloy in single phase. Progress in	5-7	70

227	Identification of Stable Processing Parameters in TiBAlBV Alloy from a Wide Temperature Range Across ITransus and a Large Strain Rate Range. 2015 ,		1	
226	Dual phase titanium alloy hot forging process design: experiments and numerical modeling. 2015 , 3, 269-281		7	
225	Processing Maps of the Ti-6Al-4V Alloy in a Forging Process Design. 2015 , 641, 190-197		3	
224	Optimizing and identifying the process parameters of AZ31 magnesium alloy in hot compression on the base of processing maps. <i>Journal of Alloys and Compounds</i> , 2015 , 629, 155-161	5.7	37	
223	Hot deformation behavior of TC11/Ti22Al25Nb dual-alloy in isothermal compression. Transactions of Nonferrous Metals Society of China, 2015, 25, 2195-2205	3.3	19	
222	Ti-6Al-4V triply periodic minimal surface structures for bone implants fabricated via selective laser melting. 2015 , 51, 61-73		318	
221	Flow behavior modeling of IMI834 titanium alloy during hot tensile deformation. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 748-758	3.3	24	
220	Hot Deformation Behavior and Flow Stress Prediction of TC4-DT Alloy in Single-Phase Region and Dual-Phase Regions. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 2140-2150	1.6	14	
219	A comparative study on JohnsonLook constitutive modeling for TiBAlAV alloy using automated ball indentation (ABI) technique. <i>Journal of Alloys and Compounds</i> , 2015 , 633, 220-228	5.7	44	
218	Constitutive analysis of hot deformation behavior of a Ti6Al4V alloy using physical based model. Materials Science & Microstructure and Processing , 2015, 648, 265-273	5.3	48	
217	Microstructure of Interpass Rolled Wire + Arc Additive Manufacturing Ti-6Al-4V Components. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 6103-6118	3 .3	152	
216	Modelling of the workpiece geometry effects on TiBALBV linear friction welds. 2015, 87, 1087-1099		37	
215	Flow Behavior and Processing Maps of a Low-Carbon Steel During Hot Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 6052-6064	2.3	18	
214	Softening Behavior of Ti6Al4V Alloy during Hot Deformation. 2015 , 828-829, 407-412		2	
213	Experiments and crystal plasticity finite element simulations of nanoindentation on TiBAlaV alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 28-35	5.3	29	
212	Modelling the influence of the process inputs on the removal of surface contaminants from TiBALBV linear friction welds. 2015 , 66, 183-195		56	
211	Effect of Indentation Size and Strain Rate on Nanomechanical Behavior of Ti-6Al-4VAlloy. 2015 , 68, 143-	150	6	
210	Processing map for a cast and homogenized near alpha titanium alloy. 2015 , 8, 85-97		9	

(2016-2015)

209	Prediction of machining induced microstructure in TiBAlBV alloy using 3-D FE-based simulations: Effects of tool micro-geometry, coating and cutting conditions. <i>Journal of Materials Processing Technology</i> , 2015 , 220, 1-26	5.3	77	
208	The analysis of the hot deformation behaviour of the TiBAlBVBCrBZrBMo alloy, using processing maps, a map of microstructure and of hardness. 2015 , 65, 165-173		38	
207	Identification for the Optimal Working Parameters of Ti-6Al-4V-0.1Ru Alloy in a Wide Deformation Condition Range by Processing Maps Based on DMM. 2016 , 19, 1449-1460		26	
206	Superplasticity of the Ultrafine-Grained Ti-6Al-4V Alloy with a Metastable Bingle Phase Microstructure. 2016 , 789-792		3	
205	Hot deformation behavior and microstructural evolution of beta C titanium alloy in phase field. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 2874-2882	3.3	11	
204	Strain rate sensitivity, temperature sensitivity, and strain hardening during the isothermal compression of BT25y alloy. 2016 , 31, 2863-2875		6	
203	Hot Compression of TC8M-1: Constitutive Equations, Processing Map, and Microstructure Evolution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3178-3192	2.3	5	
202	Quasi-static tensile behavior of large-diameter thin-walled TiBAlBV tubes at elevated temperature. 2016 , 29, 542-553		10	
201	Microstructural evolution and deformation mode under high-temperature-tensile-deformation of the Ti-6Al-4V alloy with the metastable ∄ martensite starting microstructure. <i>Materials Science</i> & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 661, 68-78	5.3	24	
200	Cyclic softening behavior of TiBAlBV alloy at macro and micro-scale. 2016 , 185, 115-118		8	
199	Influence of temperature and strain rate on hot deformation behavior of Zr50Ti50 alloy in single I field. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 2086-2093	3.3	8	
198	Effect of superplastic forming exposure on tensile and S-N fatigue behavior of Ti64 alloy. <i>Metals and Materials International</i> , 2016 , 22, 594-600	2.4	10	
197	Simulations and Experiments of the Nonisothermal Forging Process of a Ti-6Al-4V Impeller. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 3627-3637	1.6	6	
196	Effect of superplastic forming exposure on fatigue crack propagation behavior of Ti-6Al-4V alloy. <i>Metals and Materials International</i> , 2016 , 22, 747-754	2.4	8	
195	Hot Working Parameters Optimization of TC4-DT Titanium Alloy Based on Processing Maps Considering True Strain. 2016 , 45, 1647-1653		2	
194	Hot Deformation Behavior and Processing Map of Ti-6Al-3Nb-2Zr-1Mo Titanium Alloy. 2016 , 45, 901-90	06	12	
193	Hot deformation behavior of AZ80 magnesium alloy towards optimization of its hot workability. <i>Materials Characterization</i> , 2016 , 122, 90-97	3.9	33	
192	Development and Validation of Processing Maps for Ti-6Al-4V Alloy Using Various Flow Instability Criteria. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 4750-4756	1.6	3	

191	Constitutive Equations and ANN Approach to Predict the Flow Stress of Ti-6Al-4V Alloy Based on ABI Tests. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 4875-4884	1.6	10
190	A Study on the Hot Deformation Behavior of 47Zr-45Ti-5Al-3V Alloy with Initial Lamellar ∃ Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5974-5984	2.3	5
189	Erratum to: Effect of superplastic forming exposure on tensile and S-N fatigue behavior of Ti64 alloy. <i>Metals and Materials International</i> , 2016 , 22, 947-947	2.4	
188	Microstructure control techniques in primary hot working of titanium alloy bars: A review. 2016 , 29, 30	-40	37
187	Nonlocal Crystal Plasticity Finite Element Simulations of Nanoindentation on Ti-6Al-4V Alloy. 2016 , 188	37-189 ⁻	1
186	High-Temperature Deformation Behavior of a Ti-6Al-7Nb Alloy in Dual-Phase (In Italian	1.6	5
185	Prediction of machining-induced phase transformation and grain growth of Ti-6Al-4 V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 859-866	3.2	58
184	Flow Behavior and Constitutive Equation of Ti-6.5Al-2Sn-4Zr-4Mo-1W-0.2Si Titanium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 1347-1359	1.6	18
183	Construction of processing maps based on expanded data by BP-ANN and identification of optimal deforming parameters for Ti-6Al-4V alloy. 2016 , 17, 171-180		19
182	The research on the constitutive modeling and hot working characteristics of as-cast VBCrBTi alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 552-559	5.7	22
181	Hot deformation behavior of Zr-2.5Nb alloy: A comparative study using different materials models. Journal of Alloys and Compounds, 2016 , 662, 94-101	5.7	28
180	Deformation behavior and processing maps during isothermal compression of TC21 alloy. 2017 , 36, 86-	94	5
179	Modelling the optimum hot workability of TiB reinforced Ti-6Al-4 V alloy by stability maps. 2017 , 10, 379-387		2
178	The Superplastic Deformation Behavior and Phase Evolution of Ti-6Al-4V Alloy at Constant Tensile Velocity. 2017 , 36, 55-62		8
177	De Gruyter. 2017 , 36, 209-221		3
176	Role of activation energies of individual phases in two-phase range on constitutive equation of Zrū.5Nbū.5Cu alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 172-183	3.3	11
175	Mesoscale modeling of dynamic recrystallization behavior, grain size evolution, dislocation density, processing map characteristic, and room temperature strength of Ti-6Al-4V alloy forged in the (⊕Dregion. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 404-413	5.7	40
174	A New Microstructure-Sensitive Flow Stress Model for the High-Speed Machining of Titanium Alloy TiBAlav. 2017 , 139,		7

(2017-2017)

173	Indentation Pileup Behavior of Ti-6Al-4V Alloy: Experiments and Nonlocal Crystal Plasticity Finite Element Simulations. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 2051-2061	2.3	14
172	Effects of the cross-wedge rolling parameters on the formability of TiBAlaV alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 2217-2229	3.2	14
171	Study on hot deformation behavior and intrinsic workability of 6063 aluminum alloys using 3D processing map. <i>Journal of Alloys and Compounds</i> , 2017 , 713, 212-221	5.7	55
170	Initial flow softening and restoration mechanisms of isothermally compressed Ti-5Al-2Sn-2Zr-4Mo-4Cr with basketweave microstructure. <i>Materials Science & amp; Engineering A:</i> Structural Materials: Properties, Microstructure and Processing, 2017 , 697, 132-140	5.3	9
169	A microstructure sensitive grain boundary sliding and slip based constitutive model for machining of Ti-6Al-4V. 2017 , 109, 67-81		20
168	Hot Deformation Behavior and Intrinsic Workability of Carbon Nanotube-Aluminum Reinforced ZA27 Composites. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 1967-1977	1.6	8
167	Hot deformation behavior of the Ti6Al4V alloy prepared by powder hot isostatic pressing. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 320-332	5.7	21
166	Hot Deformation Mechanisms of an As-Extruded TiAl Alloy with Large Amount of Remnant Lamellae. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 3151-3159	1.6	8
165	Correspondence between microstructural evolution mechanisms and hot processing parameters for Ti-13Nb-13Zr biomedical alloy in comprehensive processing maps. <i>Journal of Alloys and Compounds</i> , 2017 , 698, 178-193	5.7	19
			\
164	Hot-deformation behaviour of ⊞lTi-Al-V-Fe experimental alloys. 2017 ,		4
164 163	Hot-deformation behaviour of ⊞lTi-Al-V-Fe experimental alloys. 2017, TiC particle reinforced Ti-6Al-4V friction surfacing coatings. 2017, 329, 163-173		13
<u> </u>		13	
163	TiC particle reinforced Ti-6Al-4V friction surfacing coatings. 2017 , 329, 163-173	13	13
163 162	TiC particle reinforced Ti-6Al-4V friction surfacing coatings. 2017 , 329, 163-173 Influence of Deformation Parameters on Fracture Mechanism of Ti40 Titanium Alloy. 2017 , 46, 1207-12 Effects of deformation microbands and twins on microstructure evolution of as-cast Mn18Cr18N	13 5-3	13 5
163 162 161	TiC particle reinforced Ti-6Al-4V friction surfacing coatings. 2017, 329, 163-173 Influence of Deformation Parameters on Fracture Mechanism of Ti40 Titanium Alloy. 2017, 46, 1207-12 Effects of deformation microbands and twins on microstructure evolution of as-cast Mn18Cr18N austenitic stainless steel. 2017, 32, 3864-3874 Effects of nano-twinning on the deformation and mechanical behaviours of TiAl alloys with distinct microstructure at elevated loading temperatures. <i>Materials Science & amp; Engineering A: Structural</i>		1353
163 162 161 160	TiC particle reinforced Ti-6Al-4V friction surfacing coatings. 2017, 329, 163-173 Influence of Deformation Parameters on Fracture Mechanism of Ti40 Titanium Alloy. 2017, 46, 1207-12 Effects of deformation microbands and twins on microstructure evolution of as-cast Mn18Cr18N austenitic stainless steel. 2017, 32, 3864-3874 Effects of nano-twinning on the deformation and mechanical behaviours of TiAl alloys with distinct microstructure at elevated loading temperatures. Materials Science & Deformation A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 210-218 The Microstructural Evolution and Special Flow Behavior of Ti-5Al-2Sn-2Zr-4Mo-4Cr During Isothermal Compression at a Low Strain Rate. Journal of Materials Engineering and Performance,	5-3	13 5 3 21
163 162 161 160	TiC particle reinforced Ti-6Al-4V friction surfacing coatings. 2017, 329, 163-173 Influence of Deformation Parameters on Fracture Mechanism of Ti40 Titanium Alloy. 2017, 46, 1207-12 Effects of deformation microbands and twins on microstructure evolution of as-cast Mn18Cr18N austenitic stainless steel. 2017, 32, 3864-3874 Effects of nano-twinning on the deformation and mechanical behaviours of TiAl alloys with distinct microstructure at elevated loading temperatures. Materials Science & Deformation and Science & Deformation & Deformatio	5.3	13 5 3 21

155	High-temperature tensile deformation behavior and microstructure evolution of Ti55 titanium alloy. <i>Materials Science & Dispersing A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 680, 259-269	5.3	108
154	Experimental investigation of Ti-Nb-Co ternary system at 1000 LC. 2017, 115, 170-178		18
153	Effect of hydrogen on high temperature flow behavior of near #Fi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 679, 75-86	5.3	12
152	Effect of process parameters on microstructure and mechanical properties of friction stir-welded TiBALEV joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 2919-2931	3.2	17
151	Deformation banding in Iworking of two-phase TA15 titanium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 2390-2399	3.3	12
150	Study on Hot Deformation Behavior and Microstructure Evolution of Ti55 High-Temperature Titanium Alloy. <i>Metals</i> , 2017 , 7, 319	2.3	11
149	Factors influencing superplasticity in the Ti-6Al-4V alloy processed by high-pressure torsion. Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 198-206	5.3	20
148	Study of Microstructural Characteristics and Mechanical Properties of Friction Stir Welded Three Titanium Alloys. 2018 , 5, 1082-1092		5
147	A step deformation method for superplasticity improvement of coarse-grained Till5VBCrBSnBAl. 2018 , 31, 1619-1624		6
146	Hot deformation behavior and constitutive modeling of fine grained Inconel 718 superalloy. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 85-96	5.7	69
145	Characterization on hot deformation behavior of Ti-22Al-25Nb alloy using a combination of 3D processing maps and finite element simulation method. <i>Journal of Alloys and Compounds</i> , 2018 , 753, 256-271	5.7	28
144	Unified modelling of the flow behaviour and softening mechanism of a TC6 titanium alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2018 , 748, 1031-1043	5.7	27
143	Flow Behavior and Dynamic Recrystallization of BT25y Titanium Alloy During Hot Deformation. 2018 , 37, 181-192		2
142	A literature review of Ti-6Al-4V linear friction welding. 2018 , 92, 225-257		78
141	Prediction of residual stress within linear friction welds using a computationally efficient modelling approach. 2018 , 139, 222-233		22
140	Superplastic Property of the TiBAlBV Alloy with Ultrafine-Grained Heterogeneous Microstructure. 2018 , 20, 1700317		12
139	Hot deformation behavior and processing parameter optimization of BT25y alloy with an initial equiaxed microstructure using processing map. 2018 , 37, 778-788		3
138	Influence of Grain Size and Thermo-Mechanical Conditions on the Activation Energy for Super Plastic Flow in Ti-6Al-4V Alloy. 2018 , 941, 1210-1215		1

137	Microstructural evolution in linear friction welding process for TiBALEV alloy and its FEM analysis. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2018 , 68, 544-551	0.3	
136	Effect of hot deformation on Hohase transformation in 47Zr-45Ti-5Al-3V alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 1947-1957	3.3	4
135	Dynamic Globularization Behavior of O-phase Lamellae in Ti-22Al-25Nb (at%) Alloy during Deformation at Elevated Temperatures. 2018 , 47, 416-422		5
134	Isothermal compression behavior and constitutive modeling of Ti-5Al-5Mo-5V-1Cr-1Fe alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 1114-1122	3.3	4
133	High Temperature Deformation Behavior of In-Situ Synthesized Titanium-Based Composite Reinforced with Ultra-Fine TiB Whiskers. <i>Materials</i> , 2018 , 11,	3.5	6
132	Characterization of hot deformation behavior of wear-resistant steel BTW1 using processing maps and constitutive equations. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 1054-1061	1.2	7
131	Optimal Design of High-Strength Ti-Al-V-Zr Alloys through a Combinatorial Approach. <i>Materials</i> , 2018 , 11,	3.5	3
130	Hot deformation behavior and processing maps of TiBAlAV alloy with starting fully lamellar structure. 2018 , 33, 3677-3688		10
129	A Novel Computational Method of Processing Map for Ti-6Al-4V Alloy and Corresponding Microstructure Study. <i>Materials</i> , 2018 , 11,	3.5	9
128	An Analysis on the Constitutive Models for Forging of Ti6Al4V Alloy Considering the Softening Behavior. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 3545-3558	1.6	23
127	Cellular responses to nanoscale surface modifications of titanium implants for dentistry and bone tissue engineering applications. 2018 , 137-163		1
126	Dynamic fragmentation and spheroidization of phase grains during hot deformation of Ti-6Al-4V alloy. <i>International Journal of Materials Research</i> , 2018 , 109, 685-693	0.5	4
125	Hot deformation behavior and processing workability of a Ni-based alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 367-375	5.7	56
124	An investigation of resolved shear stress on activation of slip systems during ultraprecision rotary cutting of local anisotropic Ti-6Al-4V alloy: Models and experiments. 2018 , 134, 69-78		13
123	Stress-Strain Curves and Modified Material Constitutive Model for Ti-6Al-4V over the Wide Ranges of Strain Rate and Temperature. <i>Materials</i> , 2018 , 11,	3.5	22
122	Unified modeling of work hardening and flow softening in two-phase titanium alloys considering microstructure evolution in thermomechanical processes. <i>Journal of Alloys and Compounds</i> , 2018 , 767, 34-45	5.7	22
121	Mechanical instabilities in the modeling of phase transitions of titanium. 2018 , 26, 065002		13
120	Superplasticity of Ti-6Al-4V Titanium Alloy: Microstructure Evolution and Constitutive Modelling. <i>Materials</i> , 2019 , 12,	3.5	21

119	Microstructural evolution during hot forming of Ti-6Al-4V alloy with complex initial microstructure. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 3017-3026	3.2	7
118	Superplastic deformation behavior of ultra-fine-grained Ti-1V-4Al-3Mo alloy: constitutive modeling and processing map. <i>Materials Research Express</i> , 2019 , 6, 096584	1.7	9
117	A Review on Friction Stir Processing of Titanium Alloy: Characterization, Method, Microstructure, Properties. 2019 , 50, 2134-2162		19
116	Constitutive relationship during isothermal compression of Ti-6Al-4V alloy sheet. 2019 , 255, 126504		6
115	Effects of Hot-Rolled Process and Heat Treatment on Microstructure and Mechanical Properties of Ti-6Al-4V ELI Alloy. 2019 , 944, 73-78		1
114	Material characterization, constitutive modelling, and processing map for superplastic deformation region in Ti-6Al-4V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 3419-	3 <i>4</i> 38	9
113	Hot deformation behavior and processing map of Ti-6Al-6V-2Sn titanium alloy. <i>Materials Research Express</i> , 2019 , 6, 116562	1.7	1
112	Characterization of Hot Workability of 5052 Aluminum Alloy Based on Activation Energy-Processing Map. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6209-6218	1.6	7
111	Microstructural Characterization and Mechanical Properties of Ti-6Al-4V Alloy Subjected to Dynamic Plastic Deformation Achieved by Multipass Hammer Forging with Different Forging Temperatures. 2019 , 2019, 1-12		2
110	Calculation of the Activation Energy for Super Plastic Flow in Zn-22Al Alloy. 2019 , 1221, 012019		1
109	Inverse modeling of inelastic properties of a two-phase microstructure. 2019 , 1, 015026		1
108	Initial Ingrain Size Effect on High-Temperature Flow Behavior of Tb8 Titanium Alloys in Single In Phase Field. <i>Metals</i> , 2019 , 9, 891	2.3	5
107	Characterization of Hot Deformation Behavior and Processing Maps of Till9All22Mo Alloy. <i>Metals and Materials International</i> , 2019 , 25, 1063-1071	2.4	15
106	A microstructural based constitutive approach for simulating hot deformation of Ti6Al4V alloy in the 🖶 [bhase region. <i>Materials Science & Discourse of the Base region. Materials Science & Discourse of the Base region. Materials Properties, Microstructure and Processing,</i> 2019 , 748, 30-37	5.3	14
105	Constitutive modelling, dynamic globularization behavior and processing map for Ti-6Cr-5Mo-5V-4Al alloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2019 , 796, 65-76	5.7	38
104	Effect of initial microstructure and beta phase evolution on dynamic recrystallization behaviour of Ti6Al4V alloy - An EBSD based investigation. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 467-479	5.7	15
103	Effects of multi-pass drawing strain and heat treatment on microstructure, texture and mechanical properties of Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 757, 70-83	5.3	6
102	Characterization of Hot Workability for a Near Alpha Titanium Alloy by Integrating Processing Maps and Constitutive Relationship. 2019 , 21, 1801232		7

High Temperature Deformation Behavior in the Isothermal Compression of 101 Ti-5Al-4Mo-2Cr-4Zr-2Sn-1Fe Alloy. 2019, 944, 135-141 Superplasticity of metastable ultrafine-grained Ti 6242S alloy: Mechanical flow behavior and microstructural evolution. Materials Science & Engineering A: Structural Materials: Properties, 5.3 20 Microstructure and Processing, 2019, 754, 569-580 Flow stress constitutive relationship between lamellar and equiaxed microstructure during hot 99 5.3 29 deformation of Ti-6Al-4V. Journal of Materials Processing Technology, 2019, 270, 216-227 Investigation of high temperature behavior and processing map of Ti-6Al-4V-0.11Ru titanium alloy. 98 18 5.7 Journal of Alloys and Compounds, 2019, 787, 527-536 Image Segmentation and Analysis for Microstructure and Property Evaluations on TiBALBV 97 5 Fabricated by Selective Laser Melting. 2019, 60, 561-568 A finite-strain thermomechanical model for severe superplastic deformation of Ti-6Al-4V at 96 5.7 elevated temperature. Journal of Alloys and Compounds, 2019, 787, 1336-1344 High Temperature Tensile Deformation Mode and Microstructural Conversion of TiBAIAV Alloy 95 1 with the (Duplex Starting Microstructure. 2019, 60, 1833-1841 Hot Deformation Behavior and Mechanistic Understanding of New TF400 Titanium Alloy. Metals, 8 94 2.3 2019, 9, 1277 The strain rate sensitivity exponent and the strain hardening exponent of as-cast TC21 titanium 1.7 2 93 alloy in Lingle-phase region. Materials Research Express, 2019, 6, 1165g1 Modelling for the flow behavior of a new metastable beta titanium alloy by GA-based Arrhenius 92 1.7 equation. Materials Research Express, 2019, 6, 026544 Hot working of Ti-6Al-4V with a complex initial microstructure. 2019, 12, 857-874 91 15 Analytical modeling of hot behavior of Ti-6Al-4V alloy at large strain. 2019, 161, 114-123 90 9 Hot deformation behavior and microstructure evolution of Ti-6Cr-5Mo-5V-4Al alloy during hot 89 24 compression. 2019, 160, 171-180 Investigation of the mechanisms by which hot isostatic pressing improves the fatigue performance 88 44 of powder bed fused Ti-6Al-4V. 2019, 120, 342-352 Hot Deformation Behavior and Microstructure Evolution of a New Near Ditanium Alloy Reinforced 87 2 with Trace TiCp. 2019, 21, 1800747 Mechanical behavior and fracture characteristics of simultaneously tensile loaded and laser heated 86 1.7 Ti6Al4V alloy. Materials Research Express, 2019, 6, 036506 Severe plastic deformation and different surface treatments on the biocompatible Ti13Nb13Zr and Ti35Nb7Zr5Ta alloys: Microstructural and phase evolutions, mechanical properties, and bioactivity 85 5.7 11 analysis. Journal of Alloys and Compounds, 2020, 812, 152116 The role of prismatic slip dependent dynamic recrystallization in the fabrication of a 84 2 submicrocrystalline Ti-Cu alloy with high thermostability. 2020, 188, 108475

83	Separation of dynamic recrystallization parameter domains from a chaotic system for TiBALEV alloy and its application in parameter loading path design. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138745	5.3	6
82	Hot working behaviour of experimental Ti-4.5Al-1 V-3Fe alloy with initial lamellar microstructure. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 1901-1916	3.2	7
81	Deformation Mechanism and Constitutive Consideration for Ti-5Al-5Mo-5V-3Cr-1Zr Alloy Compressed at Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 5	104-511	13 ^O
80	Analysis of the Elevated Temperature Plastic Flow Response of Ti-6Al-4V Produced via the Hydrogen Sintering and Phase Transformation (HSPT) Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 3956-3966	2.3	
79	The study of flow behavior and governing mechanisms of a titanium alloy during superplastic forming. <i>Materials Science & Discretary A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 788, 139482	5.3	17
78	Design of the stamping process of large-sized turbine blades taking into account the technological characteristics of titanium alloys. 2020 , 30, 700-706		
77	Hot deformation behavior and flow stress modeling of TiBAIBV alloy produced via electron beam melting additive manufacturing technology in single Ephase field. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139822	5.3	25
76	Comparison of two constitutive modelling methods in application of TC16 alloy at the elevated deformation temperature. 2020 , 24, 101053		4
75	Modelling approach for predicting the superplastic deformation behaviour of titanium alloys with strain hardening/softening characterizations. <i>Materials Research Express</i> , 2020 , 7, 016504	1.7	13
74	Hot Workability Characteristics and Optimization of Processing Parameters of 7475 Aluminum Alloy Using 3D Processing Map. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 787-799	1.6	2
73	Hot deformation behavior of TiBAlBVD.1Ru alloy during isothermal compression. Transactions of Nonferrous Metals Society of China, 2020, 30, 134-146	3.3	19
72	Microstructure, texture, mean free path of dislocations and mechanical properties of TiBAlBV alloy during uniaxial compression at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 776, 139042	5.3	4
71	Evolution of microstructure and texture of a near litanium alloy during forging bar into disk. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154750	5.7	8
70	Zr N b Alloys and Its Hot Deformation Analysis Approaches. <i>Metals and Materials International</i> , 2021 , 27, 2106-2133	2.4	3
69	Accelerated hot deformation and heat treatment of the TiAl alloy TNM-B1 for enhanced hot workability and controlled damage. <i>Journal of Materials Processing Technology</i> , 2021 , 291, 116999	5.3	5
68	Effect of annealing on the superplastic properties of ultrafine-grained TiBAlBVBMoIlCrIlFe alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140511	5.3	4
67	Effect of Deformation Reduction on Microstructure, Texture, and Mechanical Properties of Forged Ti-6Al-4V. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 1147-1156	1.6	3
66	High-temperature plastic deformation behaviour of powder metallurgy Ti6Al4V alloy prepared from HDH powder. <i>Powder Metallurgy</i> , 2021 , 64, 321-330	1.9	О

65	Constitutive Modeling and Processing Map of TiBAlBMoBVBCrdZr Alloy During Hot Deformation. <i>Minerals, Metals and Materials Series</i> , 2021 , 1925-1936	0.3	О
64	Microstructure evolution and mechanical properties of a hot-rolled Ti alloy. <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 105-112	3.6	1
63	Hot deformation behavior and process parameters optimization of TiBAl\(\textit{I}\)Nb alloy using constitutive modeling and 3D processing map. <i>Journal of Iron and Steel Research International</i> , 2021 , 28, 862-873	1.2	3
62	Globularization and Recrystallization of a Ti-6Al-2Sn-4Zr-6Mo Alloy under Forging in the (田) Region: Experiment, Phenomenological Modeling and Machine Learning. <i>ISIJ International</i> , 2021 , 61, 1011-1021	1.7	2
61	Investigation of deformation behavior and microstructure evolution of a Ti-6Al-4V-0.5Ni-0.5Nb-0.05Ru alloy. <i>Materials Characterization</i> , 2021 , 173, 110928	3.9	0
60	Hot Deformation Behaviors in Ti-6Al-4V/(TiB + TiC) Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , 1	2.5	1
59	Effect of Cooling Rate on Microstructure Evolution and Plastic Flow of Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2238-2260	2.3	2
58	Titanyum Ala li hlar lili Mikroyapive likillendirilebilirlilhe Seaklil Etkileri. <i>Dizce liversitesi</i> Bilim Ve Teknoloji Dergisi, 192-207	0.1	
57	Hot Deformation Behavior and Processing Maps of a New Ti-6Al-2Nb-2Zr-0.4B Titanium Alloy. <i>Materials</i> , 2021 , 14,	3.5	0
56	Comparison of flow behaviors of near beta Ti-55511 alloy during hot compression based on SCA and BPANN models. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 1665-1679	3.3	5
55	Optimization of the hot working parameters of a nickel-based superalloy using a constitutive-dynamic recrystallization model and three-dimensional processing map. <i>Journal of Materials Science</i> , 2021 , 56, 15441-15462	4.3	2
54	Effect of texture and mechanical anisotropy on flow behaviour in TiBAlBV alloy under superplastic forming conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141367	5.3	5
53	Tailoring the Microstructure and Mechanical Properties of Titanium Alloy Ti6Al4V Forgings with Different Combinations of Thermo-Mechanical Processing and Heat Treatment Cycles. 2021 , 6, 839-855	i	0
52	Effect of Pre-Strain on Microstructure and Tensile Properties of Ti-6Al-4V at Elevated Temperature. <i>Metals</i> , 2021 , 11, 1321	2.3	1
51	Investigation on microstructure and texture evolution of TiBAlBNbZZrIMo alloy during hot deformation. <i>Materials Research Express</i> , 2021 , 8, 096520	1.7	
50	Tailoring the deformation characteristics of commercial purity titanium through hot deformation of a martensitic microstructure. <i>Materials Science & Dispersion A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827, 142075	5.3	1
49	Post-bonded compressive behavior and processing map of TiAl/Ti2AlNb joint along the bonding interface based on a composite model. <i>Materials Chemistry and Physics</i> , 2021 , 271, 124915	4.4	
48	Hot deformation behavior and processing parameters optimization of SP700 titanium alloy. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 3078-3078	5.5	3

47	Substantial role of charge transfer on the diffusion mechanism of interstitial elements in £itanium: A First-principles study. <i>Scripta Materialia</i> , 2021 , 203, 114065	5.6	5
46	Metal alloys uniform TPMS structures. 2021 , 39-130		O
45	Diffusional Transformations. 2007 , 557-716		1
44	Effects of microstructure on high cycle fatigue properties of dual-phase Ti alloy: combined nonlocal CPFE simulations and extreme value statistics. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 5991-6000	5.5	3
43	Effect of grain size on high-temperature stress relaxation behavior of fine-grained TC4 titanium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 668-677	3.3	11
42	Dynamic Recrystallization in Zirconium Alloys. <i>Journal of ASTM International</i> , 2010 , 7, 103003		16
41	Increasing cold workability of Ti-6Al-4V alloy via thermo-mechanical processing: simulation and experiment. <i>International Journal of Materials Research</i> , 2019 , 110, 543-550	0.5	1
40	Low-Temperature Superplastic Deformation Behavior of Fine-Grained Ti-6Al-2Sn-4Zr-2Mo-0.1Si Alloy. <i>Transactions of Materials Processing</i> , 2009 , 18, 544-549		1
39	Dynamic Recrystallization in Zirconium Alloys. 2011 , 121-149		1
38	Dynamic Recrystallization in Zirconium Alloys. 2012 , 121-149		
37	Dynamic Recrystallization in Zirconium Alloys. 2012 , 121-149		
36	New Type of Deformation Processing of Conventional Ti Alloys. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2012 , 53, 900-905	0.3	
35	Warm Deformation Behavior of Ti-6Al-4V Alloy at Strain Rate of 100sfl. 2013, 1355-1362		
34	Flow Behavior and Hot Workability of Pre-Extruded AZ80 Magnesium Alloy. 2013 , 121-125		
33	Flow Behavior and Hot Workability of Pre-Extruded AZ80 Magnesium Alloy. 119-125		
32	Numerical Modeling of Hot Incremental Forming Process for Biomedical Application. <i>Lecture Notes in Mechanical Engineering</i> , 2018 , 881-891	0.4	2
31	Physical Simulation and Processing Map of Aluminum 7068 Alloy. <i>Materials Performance and Characterization</i> , 2019 , 8, 20190018	0.5	2
30	Understanding Flow Behavior and Microstructure Evolution during Thermomechanical Processing of Mill-Annealed Ti-6Al-4V Titanium Alloy. <i>Materials Performance and Characterization</i> , 2019 , 8, 201900	 10 ^{.5}	2

29	Macro-meso scale modeling of microstructure and mechanical properties in combination with FEM and forging properties of titanium alloys for aerospace applications. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2020 , 70, 562-569	0.3	
28	Constitutive modeling and microstructure research on the deformation mechanism of Ti-6Al-4V alloy under hot forming condition. <i>Journal of Alloys and Compounds</i> , 2022 , 892, 162128	5.7	5
27	Effect of Deformation Heating on Microstructure Evolution During Hot Forging of Ti-6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1	2.3	2
26	Impact of the Loading Conditions and the Building Directions on the Mechanical Behavior of Biomedical -Titanium Alloy Produced In Situ by Laser-Based Powder Bed Fusion <i>Materials</i> , 2022 , 15,	3.5	1
25	Effect of hydrogen on microstructure evolution and deformation behaviors of Ti-2Fe-0.1B alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163473	5.7	1
24	Hot deformation characteristics of Ti-6Al-4V. International Journal of Materials Research, 2022, 94, 1006	5- 0 <u>0</u> -11	1
23	Novel Constitutive Equation for Predicting Dynamic Recrystallization During Hot Working Considering the Efficiency of Power Dissipation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1	2.3	
22	Effect of Initial Microstructure and Strain Rate on the Hot Deformation Behavior of ATI425 Alloy in Two-Phase #Region. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	O
21	Microstructure Evolution and Deformation Mechanisms of As-Cast Antibacterial Ti6Al4V-5Cu Alloy for Isothermal Forging Process <i>Materials</i> , 2022 , 15,	3.5	О
20	Effect of Cr elimination on flow behavior and processing map of newly developed ECO-7175 aluminum alloy during hot compression. <i>Transactions of Nonferrous Metals Society of China</i> , 2022 , 32, 1442-1459	3.3	O
19	Hot compression deformation behavior and processing maps of Al-0.5Mg-0.4Si-0.1Cu alloy. <i>Journal of Materials Research and Technology</i> , 2022 ,	5.5	2
18	Study on nonuniform deformation behavior and mechanical properties of complex-shaped Ti-6Al-4[V extruded profiles with different lubrication conditions. <i>International Journal of Advanced Manufacturing Technology</i> ,	3.2	
17	Hot deformation behaviour of Ti alloys: A review on physical simulation and deformation mechanisms. 095440892211176		О
16	Deformation Characteristics, Formability and Springback Control of Titanium Alloy Sheet at Room Temperature: A Review. 2022 , 15, 5586		Ο
15	Controlling elastic modulus and ultrasonic property of Ti6Al4V alloy for ultrasonic scalpel. 2022 , 33, 104	4212	
14	Understanding processing map and microstructural evolution of powder metallurgy Ti-6Al-4V within a wide range of deformation temperatures. 2022 , 927, 167061		Ο
13	Characterization of Hot Deformation of near Alpha Titanium Alloy Prepared by TiH2-Based Powder Metallurgy. 2022 , 15, 5932		0
12	Microstructure, Texture, and Mechanical Properties of Ti6Al4V Alloy during Uniaxial Tension at Elevated Temperatures.		Ο

11	Microstructural Evolution and Mechanical Properties of Ti-22Al-25Nb Alloy Fabricated by High-Pressure Torsion under Ageing Treatment.	0
10	Hot Deformation Behavior of 4130 High-Strength Steel. 2022 , 15, 7817	1
9	Hot deformation behavior of a novel alpha + beta titanium alloy TIMETAL 407. 2023, 935, 167970	O
8	The dynamic softening identification and constitutive equation establishment of TiB.5Al\(\mathbb{B}\)Sn\(\mathbb{B}\)Zr\(\mathbb{B}\)Mo\(\mathbb{B}\)W\(\mathbb{D}\).2Si alloy with initial lamellar microstructure. \(\mathbb{2022}\), 41, 669-682	0
7	An analysis of the hot forming characteristics of diffusion bonded TC4 alloy using processing maps.	0
6	High Cycle Fatigue Properties and Fracture Behavior of TC4 Titanium Alloy at Room and Elevated Temperatures. 2023 , 278-286	O
5	A review on superplastic forming of Ti-6Al-4V and other titanium alloys. 2023, 34, 105343	1
4	Hot Deformation Behavior and Microstructure Evolution of TiBCrBMoBVBAllINb Alloy. 2023 , 13, 182	1
3	Effect of multi-pass cooling compression and subsequent heat treatment on microstructural and mechanical evolution of TC4 alloys. 2023 ,	0
2	Effect of deformation degree on microstructure and mechanical properties evolution of TiBw/Ti60 composites during isothermal forging. 2023 , 33, 802-815	O
1	Flow Behavior and Processing Map for Hot Deformation of W-3Re-5HfC Alloy.	0