Roberto Montanari

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

170 papers	1,299 citations	17 h-index	26 g-index
173 ext. papers	1,497 ext. citations	2.4 avg, IF	4.48 L-index

#	Paper	IF	Citations
170	Indentation of metals by a flat-ended cylindrical punch. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 381, 281-291	5.3	76
169	Alloys for Aeronautic Applications: State of the Art and Perspectives. *Metals*, **2019**, 9, 662	2.3	58
168	X-ray residual stress analysis on CrN/Cr/CrN multilayer PVD coatings deposited on different steel substrates. *Surface and Coatings Technology*, **2006**, 200, 6172-6175	4.4	49
167	Characterisation of plasma sprayed W coatings on a CuCrZr alloy for nuclear fusion reactor applications. *Materials Letters*, **2002**, 52, 100-105	3.3	44
166	Optimisation and characterisation of tungsten thick coatings on copper based alloy substrates. *Journal of Nuclear Materials*, **2006**, 352, 29-35	3.3	42
165	Lattice expansion of Ti□Al□V by nitrogen and oxygen absorption. *Materials Characterization*, **2008**, 59, 334-337	3.9	39
164	Automated resonant vibrating-reed analyzer apparatus for a non-destructive characterization of materials for industrial applications. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 442, 543-546	5.3	36
163	Continuous dynamic recrystallization (CDRX) model for aluminum alloys. *Journal of Materials Science*, **2018**, 53, 4563-4573	4.3	36
162	Artificial neural networks to optimize the extrusion of an aluminium alloy. *Journal of Intelligent Manufacturing*, **2010**, 21, 569-574	6.7	32
161	Microstructural Features Affecting Tempering Behavior of 16Cr-5Ni Supermartensitic Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 1878-1887	2.3	21
160	Surface spectroscopy and structural analysis of nanostructured multifunctional (Zn, Al) layered double hydroxides. *Surface and Interface Analysis*, **2016**, 48, 514-518	1.5	21
159	A remotely operated FIMEC apparatus for the mechanical characterization of neutron irradiated materials. *Journal of Nuclear Materials*, **1998**, 258-263, 446-451	3.3	19
158	□old corrosion□red stains on a gold Austrian Ducat. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 205-211	2.6	19
157	On the Cr atom distribution in MANET1 steel. *Physica Status Solidi A*, **1992**, 131, 465-480		19
156	High temperature tribological behavior and microstructural modifications of the low-temperature carburized AISI 316L austenitic stainless steel. *Surface and Coatings Technology*, **2014**, 258, 772-781	4.4	17
155	Electron Beam Welding of IN792 DS: Effects of Pass Speed and PWHT on Microstructure and Hardness. *Materials*, **2017**, 10,	3.5	17
154	Structural and mechanical properties of welded joints of reduced activation martensitic steels. *Journal of Nuclear Materials*, **2002**, 307-311, 1563-1567	3.3	17

153	Improvement of the fatigue behaviour of Al 6061/20% SiCp composites by means of titanium coatings. *Composites Science and Technology*, **2001**, 61, 2047-2054	8.6	17
152	The effect of Equal Channel Angular Pressing on the stress corrosion cracking susceptibility of AZ31 alloy in simulated body fluid. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 106, 103724	4.1	16
151	A miniaturized test method for the mechanical characterization of structural materials for fusion reactors. *Journal of Nuclear Materials*, **1996**, 233-237, 1557-1560	3.3	16
150	Small-scale nondestructive stress-strain and creep tests feasible during irradiation. *Journal of Nuclear Materials*, **1994**, 212-215, 1688-1692	3.3	16
149	Composite of Ti6Al4V and SiC fibres: evolution of fibre□matrix interface during heat treatments. *Surface and Interface Analysis*, **2008**, 40, 277-280	1.5	15
148	AISI 304 steel: anomalous evolution of martensitic phase following heat treatments at 400 ?C. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2006**, 438-440, 202-206	5.3	15
147	Young's Modulus Profile in Kolsterized AISI 316L Steel. *Materials Science Forum*, **2013**, 762, 183-188	0.4	14
146	Mechanical characterisation of fusion materials by indentation test. *Fusion Engineering and Design*, **2001**, 58-59, 755-759	1.7	14
145	Martensite formation during heat treatments of AISI 304 steel with biphasic structure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1999**, 273-275, 443-447	5.3	14
144	Mechanical Characterization of a Nano-ODS Steel Prepared by Low-Energy Mechanical Alloying. *Metals*, **2017**, 7, 283	2.3	13
143	Microstructural characterisation of Ni, Co and Ni?Co fine powders for physical sensors. *Thermochimica Acta*, **1995**, 269-270, 117-132	2.9	13
142	Small-angle neutron scattering study of CCr elementary aggregates in a martensitic steel for fusion-reactor technology. *Physica B: Condensed Matter*, **1995**, 213-214, 812-814	2.8	12
141	Increase of martensite content in cold rolled AISI 304 steel produced by annealing at 400?C. *Materials Letters*, **1990**, 10, 57-61	3.3	12
140	Thermal Diffusivity of Sintered Steels with Flash Method at Ambient Temperature. *International Journal of Thermophysics*, **2016**, 37, 1	2.1	12
139	Surface modification of austenitic steels by low-temperature carburization. *Surface and Interface Analysis*, **2012**, 44, 1001-1004	1.5	11
138	Metal foams for structural applications: design and manufacturing. *International Journal of Computer Integrated Manufacturing*, **2007**, 20, 497-504	4.3	11
137	Characterization of Eurofer-97 TIG-welded joints by FIMEC indentation tests. *Journal of Nuclear Materials*, **2004**, 329-333, 1529-1533	3.3	11
136	Laser Pulse Effects on Plasma-Sprayed and Bulk Tungsten. *Metals*, **2017**, 7, 454	2.3	10

135	High temperature metal hydrides for energy systems Part A: Numerical model validation and calibration. *International Journal of Hydrogen Energy*, **2017**, 42, 16195-16202	6.7	10
134	Synergic Role of Self-Interstitials and Vacancies in Indium Melting. *Metals*, **2015**, 5, 1061-1072	2.3	10
133	Composition of plasma-sprayed tungsten coatings on CuCrZr alloy. *Surface and Interface Analysis*, **2010**, 42, 1197-1200	1.5	10
132	Effect of powder mix composition on Al foam morphology. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2008**, 222, 131-140	1.3	10
131	Mechanical twins in 304 stainless steel after small-charge explosions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 424, 23-32	5.3	10
130	X-ray and neutron diffraction line broadening measurements in a martensitic steel for fusion technology. *Materials Letters*, **1995**, 22, 17-21	3.3	9
129	Solute Cr atom distribution and fracture behaviour of MANET steel. *Journal of Nuclear Materials*, **1994**, 212-215, 564-568	3.3	9
128	Preparation of Ni?Co metal powders by co-reduction of Ni (II) and Co(II) hydroxides for magnetoresistive sensors. *Materials Letters*, **1994**, 19, 263-268	3.3	9
127	Internal strains after recovery of hardness in tempered martensitic steels for fusion reactors. *Journal of Nuclear Materials*, **1991**, 179-181, 675-678	3.3	9
126	Properties of Additively Manufactured Electric Steel Powder Cores with Increased Si Content. *Materials*, **2021**, 14,	3.5	9
125	Relation between the microstructure and microchemistry in Ni-based superalloy. *Surface and Interface Analysis*, **2012**, 44, 982-985	1.5	8
124	Low temperature anelasticity in Ti6Al4V alloy and Ti6Al4V?SiCf composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 521-522, 340-342	5.3	8
123	Microchemical characterisation of carbon?metal interface in Ti6Al4V?SiCf composites. *Surface and Interface Analysis*, **2010**, 42, 707-711	1.5	8
122	Heating modification of an austenitic steel with high-nitrogen content. *Surface and Interface Analysis*, **2010**, 42, 726-729	1.5	8
121	Microstructural Effects in Face-Centered-Cubic Alloys after Small Charge Explosions. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2007**, 38, 2869-2884	2.3	8
120	Structure evolution during heat treatments of 12% Cr martensitic steel for net. *Journal of Nuclear Materials*, **1988**, 155-157, 616-619	3.3	8
119	Single crystal PWA 1483 superalloy: Dislocation rearrangement and damping phenomena. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 521-522, 102-105	5.3	7
118	High temperature indentation tests on fusion reactor candidate materials. *Journal of Nuclear Materials*, **2007**, 367-370, 648-652	3.3	7

117	Surface defects on collection coins of precious metals. *Surface and Interface Analysis*, **2004**, 36, 921-924	1.5	7
116	X-ray characterization of indium during melting. *Advances in Space Research*, **2002**, 29, 521-525	2.4	7
115	Real-time XRD investigations on metallic melts. *International Journal of Materials and Product Technology*, **2004**, 20, 452	1	7
114	Q spectra connected with C under solute atom interaction. *Journal of Alloys and Compounds*, **1994**, 211-212, 33-36	5.7	7
113	Effects of C-Cr elementary aggregates on the properties of the MANET steel. *Journal of Nuclear Materials*, **1993**, 206, 360-362	3.3	7
112	Investigation of graphene layers on electrodeposited polycrystalline metals. *Surface and Interface Analysis*, **2016**, 48, 456-460	1.5	7
111	Effect of Al2O3 reinforcement and precipitates on corrosion behaviour of 2618 and 6061 aluminium MMCs. *Corrosion Engineering Science and Technology*, **2019**, 54, 601-613	1.7	6
110	High temperature damping behaviour of Ti6Al4V SiCf composite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 521-522, 318-321	5.3	6
109	Mechanical Spectroscopy Investigation of Liquid Pb-Bi Alloys. *Solid State Phenomena*, **2012**, 184, 434-439	0.4	6
108	Distribution of C Cr associates and mechanical stability of Cr martensitic steels. *Journal of Nuclear Materials*, **1998**, 258-263, 1167-1172	3.3	6
107	Long-Term Heat Treatments on Ti6Al4V-SiCf Composite. Part II - Mechanical Characterization. *Materials Science Forum*, **2008**, 604-605, 341-350	0.4	6
106	Effect of treatment temperature on the texture of mechanically alloyed Fe 0 at.% Al+Y2O3 intermetallic. *Materials Letters*, **1999**, 41, 283-288	3.3	6
105	Microstructural characterization of MgFe2O4 powders. *Materials Chemistry and Physics*, **1990**, 26, 513-526	4.4	6
104	Cr Segregation and Impact Fracture in a Martensitic Stainless Steel. *Coatings*, **2020**, 10, 843	2.9	6
103	W-1% La2O3 Submitted to a Single Laser Pulse: Effect of Particles on Heat Transfer and Surface Morphology. *Metals*, **2018**, 8, 389	2.3	6
102	Mechanical Spectroscopy Investigation of Point Defect-Driven Phenomena in a Cr Martensitic Steel. *Metals*, **2018**, 8, 870	2.3	6
101	Nano-Indentation Properties of Tungsten Carbide-Cobalt Composites as a Function of Tungsten Carbide Crystal Orientation. *Materials*, **2020**, 13,	3.5	5
100	Study of steel-WC interface produced by solid-state capacitor discharge sinter-welding. *Surface and Interface Analysis*, **2016**, 48, 538-542	1.5	5

99	Corrosion effect to the surface of stainless steel treated by two processes of low temperature carburization. *Surface and Interface Analysis*, **2014**, 46, 731-734	1.5	5
98	Local Mechanical Characterization of Human Teeth by Instrumented Indentation. *Advanced Materials Research*, **2010**, 89-91, 751-756	0.5	5
97	Discontinuous Precipitation in a High-Nitrogen Austenitic Steel. *Materials Science Forum*, **2010**, 638-642, 3597-3602	0.4	5
96	Microstructural Investigation on Tungsten for Applications in Future Nuclear Fusion Reactors. *Materials Science Forum*, **2012**, 706-709, 835-840	0.4	5
95	Long-Term Heat Treatments on Ti6Al4V-SiCf Composite. Part I - Microstructural Characterization. *Materials Science Forum*, **2008**, 604-605, 331-340	0.4	5
94	H-induced C□r cluster redistribution in MANET steel. *Journal of Alloys and Compounds*, **2000**, 310, 209-213	3.7	5
93	Effects of thermal treatments on the ductile to brittle transition of MANET steel. *Journal of Nuclear Materials*, **1996**, 233-237, 248-252	3.3	5
92	Microstructural evolution of AISI 304 steel after repeated shock loadings. *Materials Letters*, **1992**, 15, 73-78	3.3	5
91	On the statistical distribution of Cr atoms in Fe?Cr alloys with high swelling resistance in NFR. *Journal of Nuclear Materials*, **1992**, 191-194, 1274-1278	3.3	5
90	AISI 304 steel: effects of slow heating rates on □-□reversion. *Materials Letters*, **1989**, 8, 297-300	3.3	5
89	Welding of IN792 DS superalloy by electron beam. *Surface and Interface Analysis*, **2016**, 48, 483-487	1.5	5
88	Laser Pulse Simulation of High Energy Transient Thermal Loads on Bulk and Plasma Sprayed W for NFR. *Materials Science Forum*, **2016**, 879, 1576-1581	0.4	5
87	Study of High Temperature Properties of AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion. *Materials Science Forum*,1016, 1485-1491	0.4	5
86	Design of Wear-Resistant Austenitic Steels for Selective Laser Melting. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 962-971	2.3	4
85	New Algorithm to Determine the Yield Stress from FIMEC Test. *Materials Science Forum*, **2014**, 783-786, 2272-2277	0.4	4
84	Microstructural Evolution during Tempering of 16Cr-5Ni Stainless Steel: Effects on Final Mechanical Properties. *Materials Science Forum*, **2013**, 762, 176-182	0.4	4
83	XRD investigation of binary alloy solidification. *Annals of the New York Academy of Sciences*, **2009**, 1161, 407-15	6.5	4
82	Comparison between Roll Diffusion Bonding and Hot Isostatic Pressing Production Processes of Ti6Al4V-SiCf Metal Matrix Composites. *Materials Science Forum*, **2011**, 678, 145-154	0.4	4

81	Structural Changes of Liquid Pb-Bi Eutectic Alloy. *Materials Science Forum*, **2012**, 706-709, 878-883	0.4	4
80	Deformation at very high strain rates of Al and ERGAL 7075. *Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics*, **1984**, 3, 759-772		4
79	Comparison between the behaviour of Al, Mg, Zn after shcock loading. Twinning effects. *Scripta Metallurgica*, **1985**, 19, 721-726		4
78	Numerical modelling of residual stress redistribution induced by TIG-dressing. *Frattura Ed Integrita Strutturale*, **2019**, 13, 221-230	0.9	4
77	An Innovative Industrial Process for Forging 7050 Al Alloy. *Materials Science Forum*, **2018**, 941, 1047-1052	0.4	4
76	Anelastic Behavior of Small Dimensioned Aluminum. *Metals*, **2019**, 9, 549	2.3	3
75	Surface Morphological Features of Molybdenum Irradiated by a Single Laser Pulse. *Coatings*, **2020**, 10, 67	2.9	3
74	Oxidative treatment effect on TiH2 powders. *Surface and Interface Analysis*, **2018**, 50, 1195-1199	1.5	3
73	IN792 DS Superalloy: Optimization of EB Welding and Post-Welding Heat Treatments. *Materials Science Forum*, **2016**, 879, 175-180	0.4	3
72	Determination of the Yield Radius and Yield Stress in 2198-T3 Aluminum Alloy by Means of the Dual-Scale Instrumented Indentation Test. *Materials Transactions*, **2019**, 60, 1450-1456	1.3	3
71	Mechanical Characterization of Human Dentin: A Critical Review. *Key Engineering Materials*, **2013**, 541, 75-96	0.4	3
70	Surface and bulk characterization of molten In and In-Sn alloys. *EPJ Web of Conferences*, **2011**, 15, 01007	0.3	3
69	Anelastic Phenomena at the Fibre-Matrix Interface of the Ti6Al4V-SiCf Composite. *Key Engineering Materials*, **2010**, 425, 263-270	0.4	3
68	Anelastic Phenomena in Human Dentin below Room Temperature. *Solid State Phenomena*, **2012**, 184, 455-460	0.4	3
67	Damping of FeMo Alloys Obtained from SPS Sintering of Nanostructured Powders. *Materials Science Forum*, **2008**, 604-605, 203-211	0.4	3
66	Influence of Si, Ni and Co additions on gold alloy for investment cast process. *Journal of Alloys and Compounds*, **2001**, 325, 252-258	5.7	3
65	Effect of Ti Coatings on Fatigue Behaviour of the Al 6061 / 20% SiCp Composite. *Key Engineering Materials*, **2000**, 188, 91-100	0.4	3
64	Neutron-diffraction study of the crystalline texture in a martensitic steel for fusion-reactor technology. *Physica B: Condensed Matter*, **1995**, 213-214, 809-811	2.8	3

63	MANET steel: thermal treatments and Q⁻¹ spectrum evolution. *Materials Letters*, **1995**, 25, 249-255	3.3	3
62	Cr Distribution Effects and Swelling Resistance of Manet Steel. *Materials Science Forum*, **1992**, 97-99, 387-392	0.4	3
61	X-ray study on shock loaded AISI 304 steel. *Materials Letters*, **1991**, 10, 453-456	3.3	3
60	Dislocation emission in A1 during recrystallization. *Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics*, **1986**, 8, 647-657		3
59	Evaluation of Structural Stability of Materials through Mechanical Spectroscopy: Four Case Studies. *Metals*, **2016**, 6, 306	2.3	3
58	Analysis of Strengthening Mechanisms in Nano-ODS Steel Depending on Preparation Route. *Journal of Material Science & Engineering*, **2018**, 07,	0.7	3
57	Temperature Dependent Phenomena in Liquid LBE Alloy. *Materials Science Forum*, **2017**, 884, 41-52	0.4	2
56	Physical Phenomena Leading to Melting of Metals. *Materials Science Forum*, **2017**, 884, 3-17	0.4	2
55	Dislocation Breakaway Damping in AA7050 Alloy. *Metals*, **2020**, 10, 1682	2.3	2
54	Anelastic Phenomena Preceding the Melting of Pure Metals and Alloys. *Materials Science Forum*, **2016**, 879, 66-71	0.4	2
53	Anelastic phenomena associated to water loss and collagen degradation in human dentin. *Materials Science and Engineering C*, **2013**, 33, 1455-9	8.3	2
52	Dislocation Density Effect on Thermal Diffusivity of AISI 316 Steel. *Key Engineering Materials*, **2014**, 605, 27-30	0.4	2
51	Microstructural Characterization of Ti6Al4V-SiCf Composite Produced by New Roll-Bonding Process. *Advanced Materials Research*, **2010**, 89-91, 715-720	0.5	2
50	Micro-Chemistry and Mechanical Behaviour of Ti6Al4V-SiCf Composite Produced by HIP for Aeronautical Applications. *Materials Science Forum*, **2011**, 678, 23-47	0.4	2
49	Influence of substrate structure on the development of stress anisotropy in CrN coatings. *International Journal of Surface Science and Engineering*, **2008**, 2, 337	1	2
48	Structures of solid and liquid during melting and solidification of indium. *Annals of the New York Academy of Sciences*, **2002**, 974, 68-78	6.5	2
47	Fatigue behaviour of Ti sputtered Al composites. *International Journal of Materials and Product Technology*, **2002**, 17, 214	1	2
46	Irreversible transformation in as-cast FeAl B2-ordered alloy obtained by melt spinning. *Journal of Materials Research*, **2000**, 15, 659-664	2.5	2

45	X-ray diffraction study on proton-irradiated high-purity aluminum. *Materials Letters*, **1989**, 8, 477-480	3.3	2
44	Grain Refinement and Improved Mechanical Properties of EUROFER97 by Thermo-Mechanical Treatments. *Applied Sciences (Switzerland)*, **2021**, 11, 10598	2.6	2
43	Early Instability Phenomena of IN792 DS Superalloy. *Materials Science Forum*, **2016**, 879, 2026-2031	0.4	2
42	Effect of Heat Treatments on TiH2: Surface Composition and Hydrogen Release. *Materials Science Forum*, **2016**, 879, 2032-2037	0.4	2
41	Temperature Dependent Mechanical Behavior of ODS Steels. *Materials Science Forum*, **2018**, 941, 257-262	0.4	2
40	Microstructure Refinement Effect on EUROFER 97 Steel for Nuclear Fusion Application. *Materials Science Forum*,1016, 1392-1397	0.4	2
39	Mechanical spectroscopy study of as-cast and additive manufactured AlSi10Mg. *Journal of Alloys and Compounds*, **2022**, 165361	5.7	2
38	Welding of IN792 DS Superalloy by High Energy Density Techniques. *Materials Science Forum*, **2017**, 884, 166-177	0.4	1
37	La distribution on the crater surface of W-1%La2O3 produced by a single laser pulse. *Surface and Interface Analysis*, **2020**, 52, 1093-1097	1.5	1
36	XPS study of Cr segregation in a martensitic stainless steel. *Surface and Interface Analysis*, **2020**, 52, 1089-1092	1.5	1
35	Surface and microstructural analyses of a Roman quadrans dating back to first century ad. *Surface and Interface Analysis*, **2018**, 50, 1042-1045	1.5	1
34	Investigation of skin-core joints in aluminium foam sandwich panels by EDS and XPS. *Surface and Interface Analysis*, **2016**, 48, 479-482	1.5	1
33	Lead-Bismuth Eutectic: Atomic and Micro-Scale Melt Evolution. *Materials*, **2019**, 12,	3.5	1
32	Flat-Top Cylinder Indenter Examination of Duplex Stainless Steel 2205 after Different Heat Treatments. *Metals*, **2017**, 7, 178	2.3	1
31	Analysis of Relaxation Processes in HNS Due to Interstitial-Substitutional Pairs. *Metals*, **2017**, 7, 246	2.3	1
30	Microchemical inhomogeneity in eutectic PbBi alloy quenched from melt. *Surface and Interface Analysis*, **2014**, 46, 877-881	1.5	1
29	Micro-chemical investigation of thick W coating on AISI 420 martensitic steel. *Surface and Interface Analysis*, **2014**, 46, 873-876	1.5	1
28	Effects of Heat Treatments on Tungsten for Armours in NFR. *Materials Science Forum*, **2014**, 783-786, 2353-2358	0.4	1

27	HT-XRD Analysis of W Thick Coatings for Nuclear Fusion Technology. *Key Engineering Materials*, **2014**, 605, 31-34	0.4	1
26	Mechanical Spectroscopy Examination of Human Dentin. *Key Engineering Materials*, **2013**, 541, 63-74	0.4	1
25	Internal friction and Mössbauer study of C□Cr associates in MANET steel. *Journal of Materials Research*, **1997**, 12, 296-299	2.5	1
24	Metal objects mapping after small charge explosions. A study on AISI 304Cu steel with two different grain sizes. *Journal of Forensic Sciences*, **2006**, 51, 520-31	1.8	1
23	Influence of Ti coatings on the fatigue behaviour of Al□matrix MMCs. Part I: fatigue tests and materials characterization. *Composites Part B: Engineering*, **2005**, 36, 439-445	10	1
22	Influence of Ti coatings on the fatigue behaviour of Al-Matrix MMCs. Part II: FEM simulations. *Composites Part B: Engineering*, **2005**, 36, 446-454	10	1
21	Grain Growth Effects on Creep. *Materials Science Forum*, **1992**, 94-96, 513-518	0.4	1
20	Residual stresses in the graded interlayer between W and CuCrZr alloy. *Journal of Materials Science*, **2022**, 57, 285-298	4.3	1
19	Grain Orientation and Hardness in the Graded Interlayer of Plasma Sprayed W on CuCrZr. *Applied Sciences (Switzerland)*, **2022**, 12, 1822	2.6	1
18	Work-Hardening Behavior of Cold Rolled EUROFER97 Steel for Nuclear Fusion Applications. *Materials Proceedings*, **2021**, 3, 21	0.3	1
17	Laser Beam Welding of IN792 DS Superalloy. *Materials Science Forum*, **2018**, 941, 1149-1154	0.4	1
16	Experimental Techniques to Investigate Residual Stress in Joints **2018**,		1
15	Hydrogen Release from Oxidized Titanium Hydride. *Materials Science Forum*, **2018**, 941, 2203-2208	0.4	1
14	Correlation between anelastic response and microstructure of 5N-Al thin foils. *Journal of Alloys and Compounds*, **2021**, 872, 159693	5.7	0
13	Plasma Carburizing of Laser Powder Bed Fusion Manufactured 316 L Steel for Enhancing the Surface Hardness. *Coatings*, **2022**, 12, 258	2.9	0
12	Surface phenomena during the early stage of liquid phase SPS of a mixture of coarse WC and Ni-alloy particles. *Surface and Interface Analysis*, **2018**, 50, 1072-1076	1.5	
11	Effect of Al substrate microstructure on layered double hydroxide morphology. *Journal of Materials Science*, **2019**, 54, 12437-12449	4.3	
10	Elemental Clustering and Structure of Liquid LBE. *Advanced Materials Research*, **2014**, 922, 785-790	0.5	

9	Mechanical Behaviour of Metals under Explosive Loading. *Materials Science Forum*, **2010**, 638-642, 22-28	0.4
8	Anelastic Phenomena and Cr2N Precipitation in a High Nitrogen Austenitic Steel. *Advanced Materials Research*, **2010**, 89-91, 485-490	0.5
7	Implementation of neural network for the thrust force prediction in hot drilling of 6082 aluminium alloy. *International Journal of Computational Materials Science and Surface Engineering*, **2010**, 3, 175	0.4
6	Microstructural modifications in -brass targets after small charge explosions. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2009**, 33, 76-81	1.9
5	Mechanical Spectroscopy Applications for Investigating Metallurgical Processes. *Materials Science Forum*, **2012**, 706-709, 113-120	0.4
4	Micro and Nano Scale Anelastic Phenomena in Human Dentin. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 1007-1012	
3	Effect of thermal treatments on an ordered Fe-37 at% Al intermetallic compound with Ce, La and Zr additions. *Materials Letters*, **1995**, 25, 239-243	3.3
2	TEMPERING STRUCTURES AND RELATED DUCTILE TO BRITTLE TRANSITION IN MANET STEEL **1993**, 1311-1315	
1	Surface Morphology of Refractory Metals Submitted to a Single Laser Pulse. *Materials Science Forum*,1016, 1526-1531	0.4