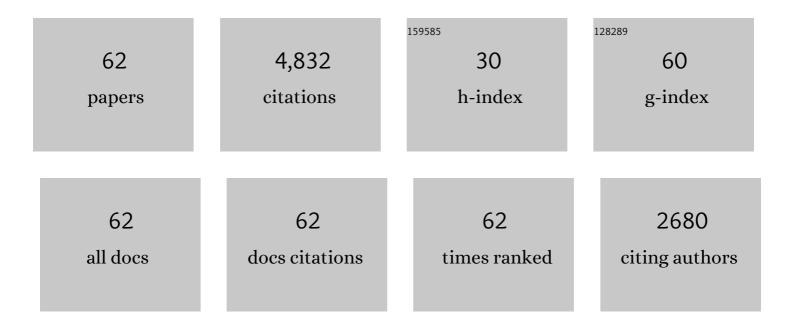
Guillaume Laplanche

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Influence of machining on the surface integrity of high- and medium-entropy alloys. Materials Chemistry and Physics, 2022, 275, 125271.	4.0	14
2	Influence of Mo/Cr ratio on the lamellar microstructure and mechanical properties of as-cast Al0.75CoCrFeNi compositionally complex alloys. Journal of Alloys and Compounds, 2022, 899, 163183.	5.5	5
3	Effects of Cr/Ni ratio on physical properties of Cr-Mn-Fe-Co-Ni high-entropy alloys. Acta Materialia, 2022, 227, 117693.	7.9	47
4	Inner relaxations in equiatomic single-phase high-entropy cantor alloy. Journal of Alloys and Compounds, 2022, 920, 165999.	5.5	7
5	Elevated-temperature cyclic deformation mechanisms of CoCrNi in comparison to CoCrFeMnNi. Scripta Materialia, 2022, 220, 114926.	5.2	10
6	Tracer diffusion in the σ phase of the CoCrFeMnNi system. Acta Materialia, 2021, 203, 116498.	7.9	24
7	Effects of temperature on mechanical properties and deformation mechanisms of the equiatomic CrFeNi medium-entropy alloy. Acta Materialia, 2021, 204, 116470.	7.9	124
8	High-Temperature Oxidation in Dry and Humid Atmospheres of the Equiatomic CrMnFeCoNi and CrCoNi High- and Medium-Entropy Alloys. Oxidation of Metals, 2021, 95, 105-133.	2.1	34
9	Laser metal deposition of refractory high-entropy alloys for high-throughput synthesis and structure-property characterization. International Journal of Extreme Manufacturing, 2021, 3, 015201.	12.7	27
10	Data compilation regarding the effects of grain size and temperature on the strength of the single-phase FCC CrFeNi medium-entropy alloy. Data in Brief, 2021, 34, 106712.	1.0	6
11	Superior low-cycle fatigue properties of CoCrNi compared to CoCrFeMnNi. Scripta Materialia, 2021, 194, 113667.	5.2	66
12	Welding of high-entropy alloys and compositionally complex alloys—an overview. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1645-1659.	2.5	29
13	Plasticity induced by nanoindentation in a CrCoNi medium-entropy alloy studied by accurate electron channeling contrast imaging revealing dislocation-low angle grain boundary interactions. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 817, 141364.	5.6	14
14	Laser metal deposition of Al0.6CoCrFeNi with Ti & C additions using elemental powder blends. Surface and Coatings Technology, 2021, 418, 127233.	4.8	6
15	Design of a new wrought CrCoNi-based medium-entropy superalloy C-264 for high-temperature applications. Materials and Design, 2021, 211, 110174.	7.0	5
16	Processing of a single-crystalline CrCoNi medium-entropy alloy and evolution of its thermal expansion and elastic stiffness coefficients with temperature. Scripta Materialia, 2020, 177, 44-48.	5.2	44
17	Analysis of strengthening due to grain boundaries and annealing twin boundaries in the CrCoNi medium-entropy alloy. International Journal of Plasticity, 2020, 124, 155-169.	8.8	167
18	Data compilation on the effect of grain size, temperature, and texture on the strength of a single-phase FCC MnFeNi medium-entropy alloy. Data in Brief, 2020, 28, 104807.	1.0	3

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19	Growth kinetics of Ï <i>f-</i> phase precipitates and underlying diffusion processes in CrMnFeCoNi high-entropy alloys. Acta Materialia, 2020, 199, 193-208.	7.9	51
20	Data related to the growth of σ-phase precipitates in CrMnFeCoNi high-entropy alloys: Temporal evolutions of precipitate dimensions and concentration profiles at interfaces. Data in Brief, 2020, 33, 106449.	1.0	1
21	Effects of cryogenic temperature and grain size on fatigue-crack propagation in the medium-entropy CrCoNi alloy. Acta Materialia, 2020, 200, 351-365.	7.9	76
22	Deformation mechanisms in a superelastic NiTi alloy: An in-situ high resolution digital image correlation study. Materials and Design, 2020, 191, 108622.	7.0	41
23	Interdiffusion in Cr–Fe–Co–Ni medium-entropy alloys. Intermetallics, 2020, 122, 106789.	3.9	49
24	Experimental and Theoretical Investigation on Phase Formation and Mechanical Properties in Cr–Co–Ni Alloys Processed Using a Novel Thin-Film Quenching Technique. ACS Combinatorial Science, 2020, 22, 232-247.	3.8	3
25	Comparison of cryogenic deformation of the concentrated solid solutions CoCrFeMnNi, CoCrNi and CoNi. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 783, 139290.	5.6	41
26	Effect of Al, Ti and C additions on WidmanstÃ t en microstructures and mechanical properties of cast Al0.6CoCrFeNi compositionally complex alloys. Materials and Design, 2019, 184, 108201.	7.0	34
27	Benchmark dataset of the effect of grain size on strength in the single-phase FCC CrCoNi medium entropy alloy. Data in Brief, 2019, 27, 104592.	1.0	8
28	Temperature dependence of elastic moduli in a refractory HfNbTaTiZr high-entropy alloy. Journal of Alloys and Compounds, 2019, 799, 538-545.	5.5	42
29	On the onset of deformation twinning in the CrFeMnCoNi high-entropy alloy using a novel tensile specimen geometry. Intermetallics, 2019, 110, 106469.	3.9	21
30	Temperature and load-ratio dependent fatigue-crack growth in the CrMnFeCoNi high-entropy alloy. Journal of Alloys and Compounds, 2019, 794, 525-533.	5.5	74
31	Precipitation Hardenable High Entropy Alloy for Tooling Applications. MRS Advances, 2019, 4, 1427-1433.	0.9	Ο
32	Effect of Temperature and Texture on Hall–Petch Strengthening by Grain and Annealing Twin Boundaries in the MnFeNi Medium-Entropy Alloy. Metals, 2019, 9, 84.	2.3	42
33	Data regarding the influence of Al, Ti, and C additions to as-cast Al0.6CoCrFeNi compositionally complex alloys on microstructures and mechanical properties. Data in Brief, 2019, 27, 104742.	1.0	1
34	Laser metal deposition of compositionally graded TiZrNbTa refractory high-entropy alloys using elemental powder blends. Additive Manufacturing, 2019, 25, 252-262.	3.0	62
35	Columnar to equiaxed transition and grain refinement of cast CrCoNi medium-entropy alloy by microalloying with titanium and carbon. Journal of Alloys and Compounds, 2019, 775, 1068-1076.	5.5	71
36	Elastic moduli and thermal expansion coefficients of medium-entropy subsystems of the CrMnFeCoNi high-entropy alloy. Journal of Alloys and Compounds, 2018, 746, 244-255.	5.5	215

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37	Thermal activation parameters of plastic flow reveal deformation mechanisms in the CrMnFeCoNi high-entropy alloy. Acta Materialia, 2018, 143, 257-264.	7.9	132
38	Laser metal deposition of a refractory TiZrNbHfTa high-entropy alloy. Additive Manufacturing, 2018, 24, 386-390.	3.0	47
39	Phase stability and kinetics of σ-phase precipitation in CrMnFeCoNi high-entropy alloys. Acta Materialia, 2018, 161, 338-351.	7.9	209
40	On the influence of crystallography and dendritic microstructure on micro shear behavior of single crystal Ni-based superalloys. Acta Materialia, 2018, 160, 173-184.	7.9	18
41	On Shear Testing of Single Crystal Ni-Base Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3951-3962.	2.2	7
42	Effect of temperature and texture on the reorientation of martensite variants in NiTi shape memory alloys. Acta Materialia, 2017, 127, 143-152.	7.9	122
43	Reasons for the superior mechanical properties of medium-entropy CrCoNi compared to high-entropy CrMnFeCoNi. Acta Materialia, 2017, 128, 292-303.	7.9	803
44	Effect of temperature on the fatigue-crack growth behavior of the high-entropy alloy CrMnFeCoNi. Intermetallics, 2017, 88, 65-72.	3.9	160
45	Microstructure evolution and critical stress for twinning in the CrMnFeCoNi high-entropy alloy. Acta Materialia, 2016, 118, 152-163.	7.9	823
46	Assessment of strain hardening in copper single crystals using in situ SEM microshear experiments. Acta Materialia, 2016, 113, 320-334.	7.9	20
47	Oxidation Behavior of the CrMnFeCoNi High-Entropy Alloy. Oxidation of Metals, 2016, 85, 629-645.	2.1	190
48	Plasticity of the ω-Al7Cu2Fe phase. Journal of Alloys and Compounds, 2016, 665, 144-151.	5.5	6
49	Microstructural evolution of a CoCrFeMnNi high-entropy alloy after swaging and annealing. Journal of Alloys and Compounds, 2015, 647, 548-557.	5.5	158
50	Processing of NiTi shape memory sheets – Microstructural heterogeneity and evolution of texture. Journal of Alloys and Compounds, 2015, 651, 333-339.	5.5	29
51	Temperature dependencies of the elastic moduli and thermal expansion coefficient of an equiatomic, single-phase CoCrFeMnNi high-entropy alloy. Journal of Alloys and Compounds, 2015, 623, 348-353.	5.5	331
52	Mechanical properties of Al–Cu–Fe quasicrystalline and crystalline phases: An analogy. Intermetallics, 2014, 50, 54-58.	3.9	23
53	Sudden stress-induced transformation events during nanoindentation of NiTi shape memory alloys. Acta Materialia, 2014, 78, 144-160.	7.9	44
54	Orientation dependence of stress-induced martensite formation during nanoindentation in NiTi shape memory alloys. Acta Materialia, 2014, 68, 19-31.	7.9	45

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55	Compressive Behavior of <scp><scp>Ti</scp></scp> ₃ <scp>AlC</scp> ₂ and <scp><scp>Ti</scp></scp> ₃ <scp>Al</scp> _{0.8} <scp>Sn</scp> Phases at Room Temperature. Journal of the American Ceramic Society, 2013, 96, 567-576.	3.8 _{0.2√}	<7sub> <scp< td=""></scp<>
56	Spark plasma sintering synthesis and mechanical spectroscopy of the ω-Al0.7Cu0.2Fe0.1 phase. Journal of Materials Science, 2012, 47, 169-175.	3.7	8
57	Powder metallurgy processing and compressive properties of Ti3AlC2/Al composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 168-173.	5.6	68
58	Synthesis and brittle-to-ductile transition of the ω-Al0.7Cu0.2Fe0.1 tetragonal phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4515-4518.	5.6	13
59	Al-matrix composite materials reinforced by Al-Cu-Fe particles. Journal of Physics: Conference Series, 2010, 240, 012013.	0.4	12
60	Microstructural and mechanical study of an Al matrix composite reinforced by Al-Cu-Fe icosahedral particles. Journal of Materials Research, 2010, 25, 957-965.	2.6	26
61	Microstructures and mechanical properties of Al-base composite materials reinforced by Al–Cu–Fe particles. Journal of Alloys and Compounds, 2010, 493, 453-460.	5.5	47
62	Strain Accommodation in a Superelastic NiTi Alloy: A High Resolution Digital Image Correlation and	0.4	0

62 Transmission Electron Microscopy Study. SSRN Electronic Journal, 0, , .