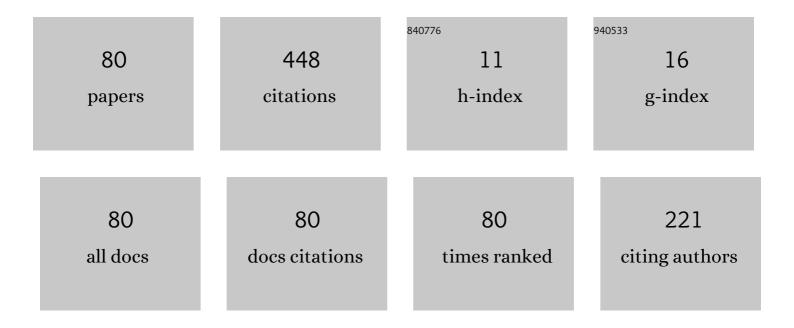
Patrice Berthod

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	High-Temperature Extreme Alloys. , 2022, , 311-322.		1
2	Influence of Ti and Co/Ni Ratio on the Oxidation at 1200°C of Chromium-Containing {Ni, Co}-Based Cast Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 277.	2.2	1
3	Kinetic and Metallography Study of the Oxidation at 1250 °C of {Co+Ni}-Based Superalloys Containing Ti to Form MC Carbides. Metals, 2022, 12, 10.	2.3	5
4	Creep and Oxidation Behaviors of 25 wt.% Cr–Containing Nickel-Based Alloys Reinforced by ZrC Carbides. Crystals, 2022, 12, 416.	2.2	0
5	Oxidation and Microstructural Behaviors at 1200 °C of 32.5 wt.% Cr–Containing Co–Based Alloys Strengthened by HfC Carbides. Crystals, 2022, 12, 361.	2.2	1
6	As-Cast Microstructures of High Entropy Alloys Designed to Be TaC-Strengthened. Journal of Metallic Material Research, 2022, 5, .	0.6	5
7	Effects of Ni Additions on the High Temperature Expansion, Melting and Oxidation Behaviors of Cobalt-Based Superalloys. Crystals, 2021, 11, 173.	2.2	6
8	Oxidation and Microstructural Behaviors of Ni-Based Alloys Strengthened by (Ta, Hf)C Carbides at 1250 °C in Air. Crystals, 2021, 11, 159.	2.2	1
9	Oxidation Behavior of the Skutterudite Material Yb0.2Co4Sb12. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 3996-4002.	2.2	2
10	Consequences of partial {Hf by Ta}–Substitution on the high temperature properties of a HfC–Reinforced Ni-based superalloy. Materials Chemistry and Physics, 2021, 271, 124949.	4.0	5
11	Addition of Co in Ni(Cr)-based cast superalloys for tantalum carbide stabilisation: consequences on the behaviour in oxidation at elevated temperatures. Canadian Metallurgical Quarterly, 2021, 60, 172-182.	1.2	0
12	Improvement of the high temperature oxidation of TaC-strengthened Co(Cr)-based cast superalloys by the addition of nickel. Corrosion Engineering Science and Technology, 2020, 55, 118-126.	1.4	3
13	Oxide scale spallation behaviour of cast chromia-forming TaC-strengthened superalloys. Materials Science and Technology, 2020, 36, 1587-1602.	1.6	3
14	A study of the dependence on the Co and Ni proportions of the oxidation at elevated temperature of TaC-strengthened {Ni and Co}-based cast superalloys. Materials Chemistry and Physics, 2020, 251, 123088.	4.0	4
15	Oxidation Behavior and Structure Stability at 1250 °C of Chromium-Rich TaC-Containing Cast Alloys Based on Nickel and Cobalt. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4168-4185.	2.2	3
16	Surface degradation of three Cr-containing cobalt-based alloys exposed to pure water vapour at 900°C. Corrosion Engineering Science and Technology, 2020, 55, 441-452.	1.4	1
17	Thermodynamic and experimental study of cobalt-based alloys designed to contain TiC carbides. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 65, 34-41.	1.6	5
18	Dependence of titanium carbide stability at elevated temperatures on Co content in Co(Ni)-25Cr-1.6Ti-0.4C superalloys. Materials Chemistry and Physics, 2018, 212, 260-267.	4.0	4

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#	Article	IF	CITATIONS
19	Influence of Co Content on the High-Temperature Oxidation Performance of (Ni,Co)–25Cr–0.4C–6Ta Cast Alloys. Oxidation of Metals, 2018, 90, 187-202.	2.1	3
20	Dependence on the Chromium Content of the High-Temperature Oxidation Behavior of Ta-Rich Nickel-Based Cast Alloys. Oxidation of Metals, 2018, 90, 135-151.	2.1	3
21	Influences of the Co content and of the level of high temperature on the microstructure and oxidation of cast {Ni, Co}-based Cr-rich TaC-containing cast alloys. Journal of Alloys and Compounds, 2018, 739, 447-456.	5.5	8
22	Behavior in oxidation at elevated temperature of {25Cr, 0.4Câ€6Ta}â€containing Ni and Coâ€based cast alloys versus their proportion in nickel and cobalt. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 703-713.	1.5	3
23	Microstructures and Surface Stabilities of {Ni-0.4C-6Ta-xCr, 0Ââ‰ÅxÂâ‰Å50ÂWtÂPct} Cast Alloys at High Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2311-2323.	2.2	0
24	Experimental and thermodynamic study of the influence of the base elements on the carbides natures in {Ni,Co}-based {25Cr, 0.4C, 6Ta}-containing alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2018, 60, 156-162.	1.6	2
25	Effect of the Ni/Co Ratio on the High-Temperature Oxidation Behavior of {Ni&Co}-Based {25Cr–0.4C–1.6Ti, wt%}-Containing Cast Alloys. Oxidation of Metals, 2018, 89, 551-563.	2.1	0
26	Effect of NbC Addition on the High-Temperature Oxidation Resistance of Co- and Ni-Based Chromium-Rich Alloys. Oxidation of Metals, 2018, 89, 339-355.	2.1	5
27	Experimental and thermodynamic investigations regarding the effect of chromium on the carbides population in cast {Ni(bal.)-0.4C-6Ta-xCr} alloys with x varying from 0 to 50â€`wt%. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2018, 62, 30-41.	1.6	3
28	Thermodynamic and experimental study of 30â€wt-%Cr-containing {Co, Fe or Ni}-based alloys with very high contents in Ta and C. Canadian Metallurgical Quarterly, 2017, 56, 113-122.	1.2	2
29	Oxidation and creep properties at 1200 °C of cast quaternary Ni-Cr-C-Ti alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 699, 145-155.	5.6	5
30	Experimental and thermodynamic study of the role of titanium in the microstructural and thermal properties of cast Ni–Cr–CTi alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2017, 56, 41-48.	1.6	7
31	Looking for New Polycrystalline MC-Reinforced Cobalt-Based Superalloys Candidate to Applications at 1200°C. Advances in Materials Science and Engineering, 2017, 2017, 1-9.	1.8	11
32	New polycrystalline MC-reinforced nickel-based superalloys for use at elevated temperatures (T >) Tj ETQq0 0	0 rgBT /C	overlock 10 Tf
33	Creep and oxidation kinetics at 1100°C of nickel-base alloys reinforced by hafnium carbides. Materials and Design, 2016, 104, 27-36.	7.0	31
34	Microstructures of binary Cr–xNi alloys (0 ≤Ni ≤30 wt.%) in their as-cast state and after high temperature exposure. Materials at High Temperatures, 2016, 33, 189-197.	1.0	7
35	Oxidation behaviour at 1100°C in air of 25â€wt-% Cr-containing cobalt-based alloys containing high quantities of hafnium carbides. Canadian Metallurgical Quarterly, 2016, 55, 409-419.	1.2	4
36	Influence of Titanium on the High Temperature Oxidation and Chromia Volatilization of Ternary Ni–Cr–C Alloys. Oxidation of Metals, 2016, 86, 581-595.	2.1	4

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#	Article	IF	CITATIONS
37	Oxide Spallation During Post-isothermal High Temperature Oxidation Cooling of Cr-rich Cast Alloys Highly Alloyed with Hf. Open Materials Science Journal, 2016, 10, 89-100.	0.2	5
38	Oxidation behavior of chromium-rich Fe-based alloys containing HfC carbides at 1100 °C. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1101-1110.	1.5	1
39	Microstructure and oxidation behaviour at 1100°C of HfC containing Cr rich iron based cast alloys. Materials Science and Technology, 2015, 31, 1764-1772.	1.6	1
40	Kinetic and metallographic study of oxidation at high temperature of cast Ni 25Cr alloy in water vapour rich air. Materials at High Temperatures, 2015, 32, 530-538.	1.0	3
41	Use of thermogravimetry and thermodynamic calculations for specifying chromium diffusion occurring in alloys containing chromium carbides during high temperature oxidation. Materials Chemistry and Physics, 2015, 165, 79-86.	4.0	2
42	Microstructure evolution at high temperature of chromium-rich iron-based alloys containing hafnium carbides. International Journal of Materials Research, 2014, 105, 717-724.	0.3	6
43	Microstructure evolution in bulk and surface states of chromium rich nickel based cast alloys reinforced by hafnium carbides after exposure to high temperature air. Materials at High Temperatures, 2014, 31, 266-273.	1.0	13
44	Kinetics of high temperature oxidation of chromium rich HfC reinforced cobalt based alloys. Corrosion Engineering Science and Technology, 2014, 49, 45-54.	1.4	8
45	As-cast microstructures and behavior at high temperature of chromium-rich cobalt-based alloys containing hafnium carbides. Materials Chemistry and Physics, 2014, 143, 1139-1148.	4.0	19
46	Kinetics of High Temperature Oxidation and Chromia Volatilization for HfC-Containing Nickel-Based Alloys. Oxidation of Metals, 2014, 81, 393-405.	2.1	12
47	High Temperature Oxidation of HfC-Containing Chromium-Rich Iron-Based Alloys. Oxidation of Metals, 2014, 82, 33-48.	2.1	4
48	Influence of Water Vapour on the Rate of Oxidation of a Ni–25wt.%Cr Alloy at High Temperature. Oxidation of Metals, 2013, 79, 517-527.	2.1	21
49	Experimental and thermodynamic study of nickel (30 wt.%Cr) – based alloys containing between 2.5 and 5.0 wt.% carbon. International Journal of Materials Research, 2012, 103, 1302-1311.	0.3	1
50	Experimental and Thermodynamic Exploration of the High-Temperature Microstructures of Co-30Âwt.% Cr- (2.5-5.0Âwt.%) C Alloys. Journal of Phase Equilibria and Diffusion, 2012, 33, 29-39.	1.4	1
51	Thermal Expansion Behaviour of Ternary Nickel-Based, Cobalt-Based, and Iron-Based Alloys Containing Very High Fractions of Carbides. ISRN Metallurgy, 2012, 2012, 1-9.	0.7	10
52	Avoiding or Promoting Graphite in Carbon-Rich Chromium-Containing CoNiFe Cast Alloys—Part 1: Preliminary Thermodynamic Exploration. ISRN Thermodynamics, 2012, 2012, 1-7.	0.6	1
53	Protection of cobalt-based refractory alloys by chromium deposition on surface. Surface and Coatings Technology, 2011, 205, 5241-5247.	4.8	4
54	Protection of cobalt-based refractory alloys by chromium deposition on surface. Surface and Coatings Technology, 2011, 205, 3708-3715.	4.8	8

#	Article	IF	CITATIONS
55	Microstructures et duretés d'alliages ternaires de type M-30% Cr-0 and#224; 5%C contenant une quantité croissante de carbures de chrome. partie 3 : alliages and#224; base de cobalt. Annales De Chimie: Science Des Materiaux, 2011, 36, 193-204.	0.4	2
56	Microstructures et duretés d'alliages ternaires de type M-30%CR-0 à 5%C contenant une quantité croissante de carbures de chrome. partie 2 : alliages à base de fer. Annales De Chimie: Science Des Materiaux, 2011, 36, 27-36.	0.4	3
57	Influence of the morphologic evolution of the eutectic carbides at high temperature on the thermal expansion behavior of refractory cast alloys. Journal of Alloys and Compounds, 2010, 504, 243-250.	5.5	12
58	Microstructures et duretés d'alliages ternaires de type m-30%cr-0 a 5%c contenant une quantité croissante de carbures de chrome. partie 1 : alliages à base de nickel. Annales De Chimie: Science Des Materiaux, 2010, 35, 291-301.	0.4	3
59	Corrosion of some selected ceramic alloys used in fixed partial dentures and their postsolder joints in a synthetic neutral saliva. European Journal of Oral Sciences, 2009, 117, 76-85.	1.5	3
60	High-temperature microstructures of ternary Co-30wt.% Cr-based alloys over the [0–2.0wt.%] carbon range. Journal of Alloys and Compounds, 2009, 467, 227-234.	5.5	12
61	High temperature properties of several chromium-containing Co-based alloys reinforced by different types of MC carbides (M=Ta, Nb, Hf and/or Zr). Journal of Alloys and Compounds, 2009, 481, 746-754.	5.5	41
62	Thermogravimetric Study of Oxide Spallation for Chromium-Rich Cast Cobalt-Based and Iron-Based Alloys Oxidized at High Temperature. The Open Corrosion Journal, 2009, 2, 61-70.	3.0	13
63	Effect of a Preliminary Aging Treatment on the Oxidation Kinetic at High Temperature for a Cobalt - Based Alloy Strengthened by Tantalum Carbides. The Open Corrosion Journal, 2009, 2, 150-156.	3.0	4
64	Influence des carbures de chrome sur le comportement thermodilatométrique d'alliages ternaires base nickel, base cobalt et base fer à haute teneur en carbone. Annales De Chimie: Science Des Materiaux, 2009, 34, 61-76.	0.4	1
65	Oxydation à haute temperature d'alliages base cobalt de fonderie renforcés par differents types de carbures MC (M = Ta, Nb, Hf ou Zr). Annales De Chimie: Science Des Materiaux, 2009, 34, 275-287.	0.4	1
66	Influence of carbides and of the dendritic orientation on the thermal expansion of Ni-base, Co-base and Fe-base simple cast alloys. International Journal of Materials Research, 2008, 99, 265-272.	0.3	12
67	Microstructures at high temperature of Fe-30 wt.% Cr-xC Alloys with x varying from 0 to 2 wt.%. International Journal of Materials Research, 2008, 99, 964-972.	0.3	2
68	Influence de l'éIément de base et de la densité des carbures sur l'oxydation à haute température d'alliages M-30Cr-xC(M = Co, Ni, Fe). partie I : constantes cinétiques parabolique et de volatilisation de Cr ₂ O ₃ . Annales De Chimie: Science Des Materiaux, 2008, 33, 225-245.	0.4	3
69	Influence de l'élément de base et de la densité des carbures sur l'oxydation à haute température d'alliages M-30Cr-xC (M = Co, Ni, Fe). partie II : caractérisation de la microstructure sub-corticale. Annales De Chimie: Science Des Materiaux, 2008, 33, 247-265.	0.4	4
70	Influence de l'orientation dendritique sur la cinétique d'oxydation à haute température d'alliages de nickel contenant des carbures. Annales De Chimie: Science Des Materiaux, 2008, 33, 59-80.	0.4	1
71	Electrochemical Study of Chromium Corrosion in Na[sub 2]O–xSiO[sub 2] Melts. Journal of the Electrochemical Society, 2007, 154, C500.	2.9	15
72	Influence of Chromium Carbides on the High Temperature Oxidation Behavior and on Chromium Diffusion in Nickel-Base Alloys. Oxidation of Metals, 2007, 68, 77-96.	2.1	14

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#	Article	IF	CITATIONS
73	Influence of the Microstructural Texture of Cast Superalloys on their High-Temperature Oxidation Behaviour. Materials Science Forum, 2004, 461-464, 1173-1180.	0.3	5
74	State of the Sub-Surface Microstructure of Carbides Strengthened Cast Superalloys after High Temperature Oxidation – Use of Thermodynamic Modelling for a Better Understanding. Materials Science Forum, 2004, 461-464, 1117-1124.	0.3	6
75	Study of the Behavior in Oxidation at High Temperature of Ni, Co and Fe-Base Alloys Containing Very High Fractions of Carbides. Materials Science Forum, 0, 595-598, 871-880.	0.3	7
76	Influence of Tantalum on the Rates of High Temperature Oxidation and Chromia Volatilization for Cast (Fe and/or Ni)-30Cr-0.4C Alloys. Materials Science Forum, 0, 595-598, 861-870.	0.3	6
77	Determination of Diffusion Coefficients Using Thermogravimetric Measurements during High Temperature Oxidation. Defect and Diffusion Forum, 0, 323-325, 289-294.	0.4	1
78	Carbides and Carbon Control in MC – Reinforced Superalloys. Asian Journal of Chemical Sciences, 0, , 64-74.	0.4	2
79	Behaviour in oxidation at 1200°C of two nickel-based alloys reinforced by (Ta, Hf)C carbides. Canadian Metallurgical Quarterly, 0, , 1-13.	1.2	1
80	Oxidation at 1250°C of {Cr, Ta}â€rich carbidesâ€strengthened {Ni, Co}â€based alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 0, , .	1.5	0