

# Exhaustive list of scientific production

J.-C. Crivello\*

*ICMPE-CMTR, CNRS UMR 7182, 2-8, rue Henri Dunant, 94320 Thiais, France*

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\*crivello@icmpe.cnrs.fr

# 1 Publications in journals with refereeing procedure

- [70] V. Paul-Boncour, J.-C. Crivello, N. Madern, J. Zhang, VBD Léopold, V. Charbonnier, J. Monnier & M. Latroche *Correlations between stacked structures and weak itinerant magnetic properties of  $La_{2-x}Y_xNi_7$  compounds*, **Journal of Physics: Condensed Matter**, 32, 415804 (12 pages), 2020.
- [69] M. Hirscher *et al.*. *Materials for hydrogen-based energy storage – past, recent progress and future outlook*, **Journal of Alloys and Compounds**, 827, 153548 (39 pages), 2020.
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- [66] V.V. Shtender, V. Paul-Boncour, R.M. Denys, J.-C. Crivello & I.Y. Zavaliy. *TbMgNi<sub>4-x</sub>Co<sub>x</sub>–(H,D)<sub>2</sub> System. I: synthesis, hydrogenation properties, crystal and electronic structures*, **The Journal of Physical Chemistry C**, 124, 196–204, 2020.
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### 3 Publications without refereeing procedure

- [5] T. Nobuki, M. Hatate, F. Cuevas, J.-C. Crivello & J.-M. Joubert. *Synthesis of Ti-Ni alloy by mechanical alloying and their hydrogen solubility*, **Chūgoku–Shikoku Kōenkai kōenronbunshū**, 57, 306, 2019.
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### 4 Book chapters

- [2] «**Une métallurgie médiévale-fantastique**». J.-M. Joubert & J.-C. Crivello. In *”Tolkien et les Sciences”*, First Edition. Edited by R. Lehoucq, J.-S. Steyer & L. Mangin. Published by Belin (2019).
- [1] **Chapter 4: «Thermodynamics»**. T. Haug-Warberg, L.-Q. Chen, U. Kattner, B. Hallstedt, A. Costa e Silva, J. Lee, J.-M. Joubert, J.-C. Crivello, F. Zhang, B. Huseby, & O. Blomberg. In *”Handbook of Software Solutions for ICME”*, First Edition. Edited by Georg J. Schmitz & Ulrich Prahl. Published by Wiley-VCH Verlag GmbH & Co (2016).

## 5 Invited oral communications in international conference

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- [8] J.-M. Joubert, J.-C. Crivello & N. Bourgeois. *Thermodynamic Modeling of Metal-Hydrogen Systems*. **Gordon Research Conference on Hydrogen-Metal Systems**, Stonehill College, Easton, USA, 16–21 July 2017.
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- [6] F. Cuevas, H. Emami, J. Zhang, J.-C. Crivello & M. Latroche. *TiNi-based intermetallic compounds for Ni-MH batteries: challenges and opportunities*. **International Symposium on Materials for Energy Storage and Conversion**, mESC-IS 2015, Ankara, Turkey, 7–9 September 2015.
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- [51] M. Dottor, J.-C. Crivello & J.-M. Joubert. *Phase diagram evaluation and thermodynamic assessment of the chromium-hydrogen system*. **Thermodynamics of Alloys, TOFA**, Bad Staffelstein, Germany, 28 September – 2 October 2020 (?).
- [50] C. Barreteau, J.-C. Crivello, J.-M. Joubert & A. Alleno. *Looking for new thermoelectric materials among ternary intermetallic using high-throughput calculations*. **ECT2019**, European Conferences on Thermoelectrics, Limassol, Cyprus, 23–25 September 2019.
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