Luiz Tadeu Fernandes Eleno

Curricular Summary

CONTACT INFORMATION

Title+Name Prof. Dr. Luiz Tadeu Fernandes Eleno Address Pólo-Urbo Industrial, Gleba AI-6, s/nº

EEL-USP (área II)

CEP: 12 602-810 — Lorena/SP, Brazil

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Place & date of birth São Paulo/SP, Brazil, October 1st, 1976

Professional field Computational Materials Science & Engineering

1. EDUCATION

Year of completion	Title	Institution
2001	Metallurgical Engineering (Undergraduate degree)	EP-USP (a)
2003	MSc in Materials Science & Engineering	EP-USP (a)
2012	PhD in Materials Science & Engineering	EP-USP (a)
2014	Post-Doctorate in Physics of Materials	IF-USP $^{(b)}$

⁽a) Polythecnic School, University of São Paulo

2. PROFESSIONAL HISTORY

• EEL-USP

Period: from May 2014 (current)

Activity: Professor Doctor

Institution: Lorena School of Engineering, University of São Paulo (EEL-USP), Lorena, Brazil

• CIRIMAT/ENSIACET

Period: from March to August 2008

Activity: Invited researcher

Institution: ENSIACET (École Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques) and CIRIMAT (Centre Interuniversitaire de Recherche et d'Ingénierie des Matéri-

aux), Toulouse, France

• Max-Planck-Institut für Eisenforschung

Period: from September 2003 to February 2008

Activities: Researcher

Institution Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany

⁽b) Institute of Physics, University of São Paulo

3. MOST RELEVANT SCIENTIFIC RESULTS

Note: number of citations extracted from the Researcher ID website as of March 6, 2019.

Selected recent publications

- [1] V. O. dos Santos, M. A. Tunes, L. Eleno, C. G. Schön, K. W. Richter. "Experimental investigation of phase equilibria in the Nb–Ni–Si refractory alloy system at 1073 K". *Scripta Materialia* 164 (2019), pp. 96–100. DOI: 10.1016/j.scriptamat.2019.01.026.
- [2] P. P. Ferreira, F. B. Santos, A. J. S. Machado, H. M. Petrilli, L. Eleno. "Insights into the unconventional superconductivity in HfV2Ga4 and ScV2Ga4 from first-principles electronic-structure calculations". *Physical Review B* 98 (2018), p. 045126. DOI: 10.1103/physrevb.98.045126.
- [3] P. Ferreira, T. Dorini, F. Santos, A. Machado, L. Eleno. "Elastic anisotropy and thermal properties of extended linear chain compounds MV2Ga4 (M = Sc, Zr, Hf) from ab-initio calculations". *Materialia* 4 (2018), pp. 529–539. DOI: 10.1016/j.mtla.2018.11.008.
- [4] A. J. S. Machado et al. "Evidence for topological behavior in superconducting Cu_xZrTe_{2-y}". *Physical Review B* 95 (2017), p. 144505. DOI: 10.1103/PhysRevB.95.144505. (6 citations).
- [5] R. Igarashi, I. Miranda, L. T. F. Eleno, A. Klautau, H. M. Petrilli. "Noncollinear magnetism of Mn nanowires on Fe(110)". *Journal of Physics: Condensed Matter* 28 (2016), p. 326001. DOI: 10.1088/0953-8984/28/32/326001. (3 citations).
- [6] L. T. F. Eleno, L. A. Errico, H. M. P. P. G. Gonzales-Ormeño, C. G. Schön. "Ordering phase relationships in ternary iron aluminides". *Calphad* 44 (2014), pp. 70–80. DOI: 10.1016/j.calphad.2013.06.009. (6 citations).

Highlighted publications

- [1] L. Eleno, J. Veselý, B. Sundman, M. Cieslar, J. Lacaze. "Assessment of the Al corner of the ternary Al–Fe–Si system". *Materials Science Forum* 649 (2010), pp. 523–528. DOI: 10.4028/www.scientific.net/MSF.649.523. (22 citations).
- [2] R. Schmid-Fetzer, D. Andersson, P. Chevalier, L. Eleno, O. Fabrichnaya, U. Kattner, B. Sundman, C. Wang, A. Watson, L. Zabdyr, M. Zinkevich. "Assessment techniques, database design and software facilities for thermodynamics and diffusion". *Calphad* 31 (2007), pp. 38–52. DOI: 10.1016/j.calphad. 2006.02.007. (91 citations).
- [3] L. Eleno, K. Frisk, A. Schneider. "Assessment of the Fe-Ni-Al system". *Intermetallics* 14 (2006), pp. 1276–1290. DOI: 10.1016/j.intermet.2005.11.021. (66 citations).
- [4] R. Fischer, L. Eleno, G. Frommeyer, A. Schneider. "Precipitation of Cr-rich phases in a Ni–50Al–2Cr (at.%) alloy". *Intermetallics* 14 (2006), pp. 156–162. DOI: 10.1016/j.intermet.2005.04.017. (11 citations).

4. CURRENT FINANCIAL GRANTS

CNPq Universal: "Estudo ab initio da estabilidade de compostos intermetálicos" (*Ab initio study of intermetallic compound stability*). Projeto CNPq Universal no. 405617/2018-6. Amount: R\$ 22 000,00 Scope: code license aquisition *software* (VASP and WIEN2k). Duration: 02 2019 to 01 2021.

5. ONGOING SUPERVISIONS

Pedro Pires Ferreira: "Ab-initio investigation of electronic and phononic properties of superconducting TMDs." Master project, Grant FAPESP n° 2018/10835-6.

Igor Hideki Cabianca Yamamoto: "Ab initio determination of mechanical and magnetic properties of the hexagonal C14 Laves phase Fe2Ti". Undergrad project (iniciação científica) FAPESP, Grant number: 18/18934-3.

6. ACADEMIC QUANTITATIVE INDICATORS

Books: 0

Publications in journals with selective editorial policy: 25

Book chapters: 0

Supervised and concluded Master's dissertations: 0

Supervised and concluded Doctoral theses: 0

Number of citations: 265 (Researcher ID)

h-index: 8 (Researcher ID)

7. LINKS TO RESEARCH AGGREGATORS

Plataforma Lattes: http://lattes.cnpq.br/2806024249023699

Researcher ID: http://www.researcherid.com/rid/P-4687-2018

ORCID: https://orcid.org/0000-0002-3117-5116

Google Scholar: https://scholar.google.com.br/citations?user=V4ycRTQAAAAJ

8. OTHER RELEVANT INFORMATION

Reviewer for the following journals: *Intermetallics; Journal of Phase Equilibria and Difusion; Journal of Alloys and Compounds; Materials Letters.*

Co-organizer of the international conference *TOFA 2016 — Discussion Meeting on Thermodynamics of Alloys*, held in Santos, Brazil, September 04–09, 2016 (http://tofa2016.poli.usp.br/)

Magazine article "Entropia social: uma termovisão de mundo" (Social entropy: a thermal worldview). *Conhecimento Prático Filosofia* 30 (2011), pp.54–61.

Prize: José Ermírio de Moraes Prize for the best graduation work in Metallurgical Engineering with the monograph "*Cálculo por CVM do diagrama de fases do sistema Co–Cr–Al CCC*" (Cluster Variation Method calculation of the bcc Co–Cr–Al phase diagram), 2001.