Universitatea Tehnică din Cluj-Napoca
Facultatea de Ingineria Materialelor si a Mediului
Departamentul Ştiinţa şi Ingineria Materialelor
Sl.dr.ing. Bogdan Viorel Neamtu

LISTĂ DE LUCRĂRI

A) 10 lucrări reprezentative

1. **B.V. Neamţu**, M. Nasui, T.F. Marinca, F. Popa, I. Chicinaş, *Soft magnetic composites based on hybrid coated Fe-Si nanocrystalline powders*,
Surface and Coatings Technology 330 (2017) 219-227. **Factor de impact – 2,906**

2. **B.V. Neamtu,** H.F. Chicinas, G. Ababei, M. Gabor, T.F. Marinca, N. Lupu, I. Chicinas, *A comparative study of the Fe-based amorphous alloy prepared by mechanical alloying and rapid quenching,*
Journal of Alloys and Compounds, 703 (2017) 19-25. **Factor de impact – 3,779.**

3. **B.V. Neamţu**, T. F. Marinca, I. Chicinaş, O. Isnard,
Structural, magnetic and thermal characterisation of amorphous FINEMET powders prepared by wet mechanical alloying
Journal of Alloys and Compounds, 626 (2015) 49-55. **Factor de impact – 3.779.**

4. **B.V. Neamţu**, T. F. Marinca, I. Chicinaş, O. Isnard, F. Popa, P. Pascuta,
Preparation and soft magnetic properties of spark plasma sintered compacts based on Fe-Si-B glassy powder
Journal of Alloys and Compounds, 600 (2014) 1-7. **Factor de impact – 3.779.**

5. **B.V. Neamţu**, I. Chicinaş, O. Isnard, I. Ciascai, F. Popa, T. F. Marinca,
Consolidation and DC magnetic properties of nanocrystalline Supermalloy/iron composite cores prepared by spark plasma sintering,
Journal of Magnetism and Magnetic Materials, 353 (2014) 6-10. **Factor de impact – 3,046.**

6. **B.V. Neamţu**, I. Chicinaş, O. Isnard, I. Ciascai, H. Chiriac, M. Lostun,
Magnetic properties of nanocrystalline Ni3Fe compacts prepared by spark plasma sintering,
Intermetallics 35 (2013) 98-103. **Factor de impact – 3.42**

7. **B.V. Neamţu**, O. Geoffroy, I. Chicinaş, O. Isnard
AC magnetic properties of the soft magnetic composites based on Supermalloy nanocrystalline powder prepared by mechanical alloying
Materials Science and Engineering: B, 177 (2012) 661-665. **Factor de impact – 3.316**

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Structural and magnetic properties of nanocrystalline NiFeCuMo powders produced by wet mechanical alloying,
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9. **B. V. Neamțu**, O. Isnard, I. Chicinas, C. Vagner, N. Jumate, P. Plaindoux,
Influence of benzene on the Ni_3Fe nanocrystalline compound formation by wet mechanical alloying: an investigation combinig DSC, X-ray diffraction, mass and IR spectrometries,
Materials Chemistry and Physics 125 (2011) 364-369. **Factor de impact – 2,210.**

10. **B.V. Neamțu**, I. Chicinas, O. Isnard, F. Popa, V. Pop
Influence of wet milling conditions on the structural and magnetic properties of Ni_3Fe nanocrystalline powders,
Intermetallics, 19 (2011) 19-25. **Factor de impact – 3.42**

B) Teza de doctorat

Titlul tezei de doctorat: *Matériaux compacts magnétiques doux obtenus à l'état nanocristallin à partir de poudres d'alliages Ni-Fe-X issues de mécanosynthèse*
Coordonator teză din partea Universității Tehnice din Cluj Napoca: Prof.dr.ing.fiz. Ionel Chicinaș
Coordonator teză din partea Universității Joseph Fourier: Prof.dr.ing.fiz Olivier Isnard
Disponibilă online: https://tel.archives-ouvertes.fr/tel-00531615/file/These_Bogdan_Neamtu.pdf

C) Brevete de invenție - 1

- I. Chicinaș, T.F. Marinca, F. Popa, **B.V. Neamțu**, Pulbere nanostructurată de tipul Permalloy(Supermalloy)/Rhometal si procedeu de obținere. Număr brevet RO130354-B1.

D) Cărți și capitole în cărți - 5

D1) Cărți/capitole ca autor - 3

i. **B.V. Neamțu**, Analiza termică a materialelor (111 pagini) în Metode de caracterizare a materialelor, UTPRESS - ISBN 978-606-737-300-4, 2018.

ii. **B.V. Neamțu**, Noțiuni de control nedistructiv, U.T. Press, Cluj-Napoca, ISBN 978-606-737-378-3, 2019 -format electronic – 176 pagini

iii. **B.V. Neamțu**, T.F. Marinca, F. Popa, Tehnici de analiză a materialelor - Aplicații practice, U.T. Press, Cluj-Napoca, 2015 – ISBN 978-606-737-033-1. – 185 pagini

D2) Cărți/capitole ca editor - 2

iv. TF. Marinca, **B.V. Neamțu**, F. Popa, Book of Abstracts - 5th International Conference on Powder Metallurgy & Advanced Materials, UTPress, Cluj-Napoca, ISBN 978-606-737-260-1, 2017.

v. T.F. Marinca, **B.V. Neamțu**, F. Popa, Powder Metallurgy and Advanced Materials, Materials Research Forum LLC, Millersville, SUA - ISBN 978-1-945291-98-2, 2018.

E) Articole în extenso publicate în reviste din fluxul științific principal - 63

E1) Articole ISI și ISI proceedings - 53

E1.1) Articole ISI cu factor de impact – 37

1. C.V. Prică, T.F. Marinca, **B.V. Neamțu**, F. Popa, V. Popescu, I. Chicinaş, *Structural and thermal investigation of Ta–25 mass% Cu alloy prepared by mechanosynthesis route*, Journal of Thermal Analysis and Calorimetry, 136 (2019) 995-1001. **Factor de impact – 2,209**.

2. **B.V. Neamțu**, M. Nasui, T.F. Marinca, F. Popa, I. Chicinaş, *Soft magnetic composites based on hybrid coated Fe-Si nanocrystalline powders*, Surface and Coatings Technology 330 (2017) 219-227. **Factor de impact – 2,906**

3. Boldrin, D., Mihai, A.P., Zou, B., Zemen, J., Thompson, R., Ware, E., **Neamtu, B.V.**, Ghivelder, L., Esser, B., McComb, D.W., Petrov, P., Cohen, L.F., *Giant Piezomagnetism in Mn3NiN* ACS Applied Materials and Interfaces, 10 (2018) 18863-18868. **Factor de impact – 8.097**

4. H.F. Chicinas, T.F. Marinca, **B.V. Neamtu**, G. Contiu, O. Isnard, I. Chicinas, *Influence of process control agent type on the mechanosynthesis of Fe_3O_4 particles*, Advanced Powder Technology, 29 (2018) 1838-1847. **Factor de impact – 2,943.**

5. H.F. Chicinas, D.O. Jucan, T.F. Marinca, B.V.Neamtu, G. Contiu, P. Gotoe, A. Eckert, C.O. Popa, *Influence of milling media on the structure and agglomeration behaviour of some hardmetal powder*, Powder Metallurgy, 61 (2018) 342-347. **Factor de impact – 0,893.**

6. C. Voicu, F. Popa, T.F. Marinca, **B.V. Neamtu**, M. Lostun, N. Lupu, I. Chicinas, *Synthesis and characterisation of Al_2O_3/Ni-type composites obtained by spark plasma sintering*, Powder Metallurgy, 61 (2018) 251-257. **Factor de impact – 0,893.**

7. C.V. Prică, **B.V. Neamțu**, F. Popa, TF Marinca, N. Sechel, I. Chicinaş, *Invar-type nanocrystalline compacts obtained by spark plasma sintering from mechanically alloyed powders*, Journal of Materials Science 53 (5) (2018) 3735-3743. **Factor de impact – 2,993.**

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9. T.F. Marinca, H.F. Chicinaş, **B.V. Neamţu,** F. Popa, I. Chicinaş,
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Ceramics International, 43 (2017) 14281-14291. **Factor de impact – 3,057**

10. T.F. Marinca, H.F. Chicinaş, **B.V. Neamţu,** O. Isnard, A. Mesaros, I. Chicinaş,
Composite magnetic powder of Ni3Fe/Fe3O4 type obtained from Fe/NiO/Fe2O3 mixtures by mechanosynthesis and annealing,
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11. **B.V. Neamţu,** H.F. Chicinaş, T.F. Marinca, O. Isnard, I. Chicinaş,
Preparation and characterisation of Co–Fe–Ni–M-Si–B (M = Zr, Ti) amorphous powders by wet mechanical alloying,
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12. **B.V. Neamţu,** H.F. Chicinaş, T.F. Marinca, O. Isnard, O. Pana, I. Chicinaş,
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14. T.F. Marinca, H.F. Chicinaş, **B.V. Neamţu**, I. Chicinas, O. Isnard, F. Popa, P. Pascuta,
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Advanced Powder Technology, 27 (2016) 1588 – 1596. **Factor de impact – 2,943.**

15. T.F. Marinca, H.F. Chicinaş, **B.V. Neamţu**, O. Isnard, P. Pascuta, N. Lupu, G. Stoian, I. Chicinaş,
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Materials Chemistry and Physics, 171 (2016) 336-345. **Factor de impact – 2,210**

16. T.F. Marinca, I. Chicinas, O. Isnard, **B.V. Neamtu**,
Nanocrystalline/nanosized manganese substituted nickel ferrites–Ni 1− x MnxFe 2 O 4 obtained by ceramic-mechanical milling route,
Ceramics International 42 (4), 4754-4763. **Factor de impact – 3,057**

17. I. Chicinaş, T.F. Marinca, F. Popa, **B.V. Neamţu,**
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18. T.F. Marinca, I. Chicinas, O. Isnard, **B.V. Neamtu**,
Nanocrystalline/nanosized Fe3O4 particles obtained by heat treatment and mechanical milling,
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Journal of Alloys and Compounds, 652 (2015) 313-321. **Factor de impact – 3.779**

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Structural and magnetic characteristics of Co-based amorphous powders prepared by wet mechanical alloying,
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21. **B.V. Neamţu**, T. F. Marinca, I. Chicinaş, O. Isnard,
Structural, magnetic and thermal characterisation of amorphous FINEMET powders prepared by wet mechanical alloying –
Journal of Alloys and Compounds, 626 (2015) 49-55. **Factor de impact – 3.779.**

22. I. Chicinaş, T.F. Marinca, **B.V. Neamţu**, P. Pascuta, V.Pop,
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Journal of Thermal Analysis and Calorimetry, 118 (2014) 1269–1275. **Factor de impact – 2,209**

23. T.F. Marinca, **B.V. Neamţu**, I. Chicinaş, P. Pascuta,
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Journal of Thermal Analysis and Calorimetry, 118 (2014) 1245–1251. **Factor de impact – 2,209**

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Journal of Alloys and Compounds, 608 (2014) 54-59. **Factor de impact – 3.779.**

25. I. Chicinaş, T.F. Marinca, **B.V. Neamţu**, F. Popa, O. Isnard, V. Pop,
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26. **B.V. Neamţu**, T. F. Marinca, I. Chicinaş, O. Isnard, F. Popa, P. Pascuta,
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27. **B.V. Neamţu**, I. Chicinaş, O. Isnard, I. Ciascai, F. Popa, T. F. Marinca,
Consolidation and DC magnetic properties of nanocrystalline Supermalloy/iron composite cores prepared by spark plasma sintering,
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28. T.F. Marinca, **B.V. Neamţu**, I. Chicinaş, O. Isnard,
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Study on stability of phases in ball milled $ZnFe_2O_4/Fe$ composite during spark plasma sintering,
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32. **B.V. Neamţu**, O. Geoffroy, I. Chicinaş, O. Isnard
AC magnetic properties of the soft magnetic composites based on Supermalloy nanocrystalline powder prepared by mechanical alloying
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33. **B. V. Neamţu**, O. Isnard, I. Chicinas, V. Pop
Structural and magnetic properties of nanocrystalline NiFeCuMo powders produced by wet mechanical alloying,
Journal of Alloys and Compounds 509 (2011) 3632-3637. **Factor de impact – 3.779**

34. **B. V. Neamţu**, O. Isnard, I. Chicinas, C. Vagner, N. Jumate, P. Plaindoux,
Influence of benzene on the Ni_3Fe nanocrystalline compound formation by wet mechanical alloying: an investigation combinig DSC, X-ray diffraction, mass and IR spectrometries,
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35. **B.V. Neamţu**, I. Chicinas, O. Isnard, F. Popa, V. Pop
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39. T.F. Marinca, H.F. Chicinas, **B.V. Neamtu**, F. Popa, N.A. Sechel, I. Chicinas, *Reactive mechanical milling of Fe-Ni-Fe2O3 mixtures*, Materials Research Proceedings 8 (2018) 18-27.

40. F. Popa, L. Copil, V. Cebotari, T.F. Marinca, B.V. Neamtu N. Sechel, I. Chicinas, *Study on the particle size reduction by milling of quartz sand for magnetic separation*, Materials Research Proceedings 8 (2018) 95-104.

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44. **B.V. Neamțu**, T. F. Marinca, I. Chicinaş, F. Popa, O. Isnard, *Preparation and characterization of amorphous soft magnetic FeSiB powders and spark plasma sintered compacts*, Solid State Phenomena, 216 (2014) 163-168.

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55. I. Chicinaş, T.F. Marinca, F.Popa, **B.V. Neamțu**, V. Pop, P. Pascuta,
Production of Permalloy/Rhometal type nanostructured powders,
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57. T.F. Marinca, M.C. Olaru, **B.V. Neamțu**, F. Popa, I. Chicinaş, Influence of lanthanum doping on the structural, morphological and thermal characteristics of nickel ferrite, Romanian Journal of Technical Sciences - Applied Mechanics, 62(3) (2017) 206–217.

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F) Alte lucrări în extenso - 5

1. I. Chicinaş, I. Ciascai, **B.V. Neamțu**, H. Chiriac, F. Popa, M. Lostun, O. Isnard, V. Pop
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