Maria Christova Petrova-Nikolova, Bulgarian Academy of Sciences

Titel: **Associate Professor, Ph.D.**

Institution: "Rostislaw Kaischew" Institute of Physical Chemistry – Bulgarian Academy of Sciences

Bereich: Electrochemistry

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Derzeitige Funktion:
Associate Professor, Ph.D.
Arbeitsgebiet:
Electrochemistry, Electroless deposition

Promotionsberechtigt: x ja ☐ nein

Forschungskompetenz:
Electrochemistry, Electroless deposition

Forschungshintergrund: Electrochemistry, Electroless deposition
"Chemical and/or electrochemical incorporation of high-solid micro- and nanoparticles into metal matrixes deposited on flexible substrates"
"Electroless deposition of metal and metal-composite coatings"

Gewünschte Forschungskooperationen:

Forschungsthemen:
Electrochemistry, Electroless deposition

Bereits bestehende Kooperationen:
keine
Ggf. bestehende Förderprogramme:
keine
Wunschpartner beim FDIBA-Projekt:

Publikationen (max. 10):

1. M. Petrova, Z. Noncheva, Ek. Dobreva, *"Electroless deposition of diamond powder disperse nickel-phosphorus coatings on steel substrate"*, Trans. of Inst. of Metal Finishing, Vol.89 (2) (2011) p.89-94, Q2 (Metals and Alloys), IF = 0.932

2. M. Georgieva, M. Petrova, D. Dobrev, E. Velkova, D. Stoychev, *"Chemical Deposition of Composite Copper-Diamond Coatings on Non-Metallic Substrate. Part II: Influence of the Hydrodynamic Regime on the Number of Co-Deposited Diamond Particles in Composite Copper-Diamond Layers"*, Materiale Plastice, ISSN: 0025-5289; 49 (1) (2012) pp.41-47 Q2, (IF = 0.40)

3. M. Georgieva, N. Razkazov, M. Petrova, G. Avdeev, D. Dobrev, "Preparetion of Chemical Dispersion Coatings with Included Boron Nitride", Journ. of Transact. of the Instit. of Metal Finishing, **ISSN: 0020-2967, 91 (2) (2013) pp.96-100,** Q2 (Metals and Alloys), IF = 1.024

4. M. Georgieva, M. Petrova, N. Razkazov, D. Dobrev, "Chemical Metallization of Cuibic Boron Nitride for the Production of Composite Materials", Journ. of Transact. of the Instit. of Metal Finishing, ISSN: 0020-2967, 92 (3) (2014) pp. 140-145, Q2 (Metals and Alloys), IF = 1.083

5. M. Georgieva, M. Petrova, Ch. Jakob, M. Fritz, V. Chakarova, "Obtaining and Study of Electroless Composite Coatings Cu-SiC and Ni-SiC on Non-Metallic Substrates", Galvanotechnik, WoMag, ISSN: 2195-5905, 10 (3) (2014) pp. 26-27 6.

6.M. Georgieva, G. Avdeev, D. Stoychev, M. Petrova, "Microstructure and Texture Investigation of Chemically Deposited Copper Coatings", Journ. of Transact. of the Instit. of Metal Finishing, ISSN: 0020-2967, 92 (2) (2015) pp. 97-103, Q2 (Metals and Alloys), IF = 0.785

7. M. Petrova, M. Georgieva, V. Chakarova, Ek. Dobreva, "Electroless Deposition of Composite Nickel-Phosphorous Coatings with Diamond Dispersoid", Archives Of Metallurgy And Materials, ISSN: 1733-349061, 61 (2) (2016) pp.493-498, Q2 (Metals and Alloys), IF = 0.969

8. V. Chakarova, M. Georgieva, M. Petrova, E. Dobreva, D. Stoychev, "Electroless Deposition and Investigation of Composite Coatings Based on Nickel or Cobalt Matrix, Including Boron Nitrides as Dispersoids, on Polyethylene Terephtalate Substrate", Trans. Inst. Metal Finishing, 94 (5) (2016) pp. 269-264, Q2 (Metals and Alloys), IF = 0.783

9. V. Chakarova, M. Georgieva, M. Petrova, "Corrosion resistance of electroless deposited ni-p coatings on polymer (ABS) substrate", Special Issue of Bulg. Chem. Commun., ISSN: 0324-1130, 49, (2017) PP.30-36 Q4 (IF =0.29)

10. S. Kozhukharov, Ch. Girginov A. Tsanev, M. Petrova, Elucidation of the Anodization and Silver Incorporation Impact on the Surface Properties of AA1050 Aluminum Alloy, Journal of the Electrochemical Society, 166 (10),(2019), C231-C242, Q1, IF = 3.662