

Shashanka Rajendrachari

Dr. Öğr. Üyesi

Metalurji ve Malzeme Mühendisliği Bölümü

Bartın Üniversitesi

Tel.: ; E-posta:

EĞİTİM BİLGİLERİ:

Doktora: (2016) Metallurgical and Materials Engineering, National Institute of Technology Rourkela, India. Fabrication of nano-structured duplex and ferritic stainless steel by planetary milling followed by consolidation.

Yüksek Lisans: (2011) Department of Nanoscience and Technology, Kuvempu University, Shimoga, Karnataka, India.

Yüksek Lisans: (2009) Department of Industrial Chemistry, Kuvempu University, Shimoga, Karnataka, India.

Lisans: (2007) Industrial Chemistry, Sahyadri Science College, Kuvempu University, Shimoga, Karnataka, India

ÜNVAN:

2018- halen Dr. Öğr. Üyesi Metalurji ve Malzeme Mühendisliği Bölümü, Bartın Üniversitesi

2016-2018 Dr. Öğr. Üyesi Department of Chemistry, Presidency University, Bangalore, India

ONUR VE ÖDÜLLER:

2015 - Received a scholarship to attend POWDERMET-2015, San Diego USA conference by PMAI (Powder Metallurgy Association of India).

2015 - First recipient of the prestigious "Grand PMAI student of the year award-2015" by Powder Metallurgy Association of India at an International PM-15 conference held at IIT Bombay.

2014 – Senior Research Fellowship from MHRD, India

2014 - Received first prize for the paper presentation at Indian Institute of Metals NMD ATM, 12th-15th November, COEP, Pune.

2011 - Senior Research Fellowship from CSIR, India

2011 - Received first prize for paper presentation at Tumkur University, India in National conference on "Chemistry of materials".

YAYINLANMIŞ ULUSLARARASI MAKALELER (SCI indeks):

1. Shashanka, R., Chaira, D., Kumara Swamy, BE. (2018). "Effect of Y₂O₃ nanoparticles on corrosion study of spark plasma sintered duplex and ferritic stainless steel samples by linear sweep voltammetric method". Archives of Metallurgy and Materials. 63: 745-759.
2. Shashanka, R. (2018) "Effect of Sintering Temperature on the Pitting Corrosion of Ball Milled Duplex Stainless Steel by using Linear Sweep Voltammetry". Anal. Bioanal.

- Electrochem. 10: 349-361.
3. Shashanka, R., Chaira, D. (2017) "Effect of sintering temperature and atmosphere on non-lubricated sliding wear of nano-yttria dispersed and yttria free duplex and ferritic stainless steel fabricated by powder metallurgy". Tribology Transactions. 60: 324-336.
 4. Nayak, AK., Shashanka, R., Chaira, D. (2016) "Effect of Nanosize Yttria and Tungsten Addition to Duplex Stainless Steel During High Energy Planetary Milling". IOP Conf. Series: Materials Science and Engineering. 115: 012008.
 5. Shashanka, R., Chaira, D. (2016) "Effects of Nano-Y₂O₃ and Sintering Parameters on the Fabrication of PM Duplex and Ferritic Stainless Steels". Acta Metall. Sin. (Engl. Lett.). 29: 58-71.
 6. Shalabh Gupta., Shashanka, R., Chaira, D. (2015) "Synthesis of nano-structured duplex and ferritic stainless steel powders by planetary milling: An experimental and simulation study". IOP Conf. Series: Materials Science and Engineering. 75: 012033.
 7. Shashanka, R., Chaira, D., Kumara Swamy, BE. (2015) "Electrocatalytic Response of Duplex and Yttria Dispersed Duplex Stainless Steel Modified Carbon Paste Electrode in Detecting Folic Acid Using Cyclic Voltammetry". Int. J. Electrochem. Sci. 10 (2015) 5586–5598.
 8. Shashanka, R., Chaira, D. (2015) "Optimization of milling parameters for the synthesis of nano-structured duplex and ferritic stainless steel powders by high energy planetary milling". Powder Technol. 278: 35-45.
 9. Shashanka, R., Chaira D. (2015) "Development of nano-structured duplex and ferritic stainless steel by pulverisette planetary milling followed by pressureless sintering". Mater Charact. 99: 220-229.
 10. Shashanka, R., Chaira D. (2014) "Phase transformation and microstructure study of nano-structured austenitic and ferritic stainless steel powders prepared by planetary milling". Powder Technol. 259: 125–136.

YAYINLANMIŞ ULUSLARARASI MAKALELER:

1. Shashanka, R. (2017) "Synthesis of nano-structured stainless steel powder by mechanical alloying-an overview". International Journal of Scientific & Engineering Research. 8: 588-594.
2. Shashanka, R., Chaira, D., Kumara Swamy, BE. (2016) "Fabrication of Planetary Milled Nano-structured Duplex and Y₂O₃ Dispersed Duplex Stainless Steel Modified Carbon Paste Electrode for the Detection of Dopamine". Transactions of PMAI. 42: 83-93.
3. Shashanka, R., Chaira, D., Chakravarty, D. (2016) "Fabrication of Nano-Yttria Dispersed Duplex and Ferritic Stainless Steels by Planetary Milling Followed by Spark Plasma Sintering and Non-Lubricated Sliding Wear Behaviour Study". Journal of Materials Science and Engineering B. 6 (5-6: 111-125.
4. Shashanka, R., Chaira, D., Kumara Swamy, BE. (2016) "Fabrication of yttria dispersed duplex stainless steel electrode to determine dopamine, ascorbic and uric acid electrochemically by using cyclic voltammetry". International Journal of Scientific & Engineering Research. 7: 1275-1285.
5. Shashanka, R., Chaira, D. (2015) "Effect of Y₂O₃ addition on non-lubricated sliding wear behaviour of duplex stainless steel". Transactions of PMAI. 41: 17-25.
6. Shashanka, R., Chaira, D., Kumara Swamy, BE. (2015) "Electrochemical investigation of duplex stainless steel at carbon paste electrode and its application to the detection of dopamine, ascorbic and uric acid". International Journal of Scientific & Engineering

- Research. 6: 1863–1871.
7. Shashanka, R., Chaira, D. (2014) "Synthesis and Characterisation of Nano-structured Ferritic and Austenitic Stainless steel Powder by High Energy Planetary Milling". OPJIT International Journal of Innovation and Research. 3: 19-25. ISSN 2319-4340.
 8. Shashanka, R., Kumara Swamy, BE., Sathish Reddy., Chaira, D. (2013) "Synthesis of Silver Nanoparticles and their Applications". Anal. Bioanal. Electrochem. 5: 455–466.
 9. Sathish Reddy., Kumara Swamy, BE., Aruna, S., Mohan Kumar., Shashanka, R., Jayadevappa, H. (2012) "Preparation of NiO/ZnO hybrid nanoparticles for electrochemical sensing of dopamine and uric acid". Chemical Sensors. 2: 7.

YAYINLANMIŞ KONFERANS MAKALELERİ:

1. Fifth International conference on Nanomaterials and Nanocomposites, ICNN-2018, Special emphasis on health, energy and environment. Vellore Institute of Technology, Chennai, India, 8-10th February 2018. **(Invited Talk and Chairperson for a session).**
2. Fourth International conference on Nanostructured Materials and Nanocomposites, ICNM-2017, Mahatma Gandhi University, Kottayam, India, 10-12th February 2017. **(Invited Talk and Chairperson for a session).**
3. PM 16 International Conference on Powder Metallurgy and Particulate Materials and 42nd Annual Technical Meeting, Hotel Hyatt Regency, Pune, 18-20th January 2016. (Oral Presentation)
4. PM 15 International Conference on Powder Metallurgy and Particulate Materials and 41st Annual Technical Meeting, IIT Bombay, 19-21st January 2015. (Oral Presentation)
5. International Conference on Metallurgical and Materials Processes, Products and Applications, O.P.Jindal Institute of Technology, Raigarh, 8-10th January 2014. (Oral Presentation)
6. 52nd National Metallurgists day and 68th Annual Technical meeting, Indian Institute of Metals NMD ATM-2014, 12-15 November, COEP, Pune. (Oral and Paper Presentation, **Best paper presentation award**)
7. 5th National Symposium for Materials Research Scholars MR-13, IIT Bombay, 8-9th May 2013. (Poster Presentation)
8. International Conference on PHYSICS OF MATERIALS AND MATERIALS BASED DEVICE FABRICATION (ICPM-MDF-2012), Shivaji University, Kolhapur. (Poster Presentation)
9. UGC sponsored national conference on "NANOCHEMISTRY- A science of diminished dimensions" (2010) held at the department of chemistry, Sahyadri science college (Autonomous), Shimoga, Karnataka, INDIA. (Poster Presentation).
10. An international conference: 3rd Bangalore nano, "Frontiers of nanotechnology; impact on India" (2010) held at Bangalore, Karnataka, INDIA. (Poster Presentation).
11. National conference on "Chemistry and molecular nanotechnology for industry and society" (2010) held at the department of Industrial chemistry, Kuvempu University, Shankaraghatta. (Poster Presentation).
12. National conference on "Understanding our universe" (2011) held at the department of Physics, Kuvempu University, Shankaraghatta.
13. An international conference on "Nano materials: synthesis, characterization and applications" (2011) held at Mahathma Gandhi university, Kottayam, Kerala, INDIA.
14. National conference on "Chemistry of materials" (2011) held at Tumkur University, Tumkur, Karnataka, INDIA. (Poster Presentation and **Best paper presentation award**)

15. National conference on "Frontier Areas in Chemical Science and Nanotechnology. (2011) held at the department of Industrial chemistry, Kuvempu University, Shankaraghatta. (Poster Presentation).
16. 2nd International Conference on Nanotechnology and Biosensors (ICNB-2) 2011, Raghu Engineering college, Visakhapatnam-531162, Andhra Pradesh. (Poster Presentation)
17. National Conference on Processing and Characterization of Materials (NCPCM-2011), NIT Rourkela, December 2011. (Oral Presentation)

YAYINLANMIŞ KİTAPLARI:

1. Shashanka, R., Chaira, D. Ball Milled Nano-Structured Stainless Steel Powder: Synthesis and Characterization. Educreation Publishing, 2017. ISBN: 978-1-5457-0821-7.

EDİTÖRLÜKLERİ:

1. Editorial member of Imaging and Radiation Research, EnPress Publisher
2. Editorial member of Composite Materials Research
3. Editorial advisory committee member in Cambridge Scholar Publishing
4. Editorial review committee member of International Journal of Scientific and Engineering Research