Curriculum Vitae



Dr. Srinibash Mishra

Assistant Professor, Department of Metallurgical and Materials Engineering,

National Institute of Technology Srinagar,

Srinagar, Jammu and Kashmir, India, Pin-190006

Email: Srinibash@nitsri.ac.in, srinibashm21@gmail.com,

Contact- +91 6203587029

Education Qualification: **Ph D** (Extractive Metallurgy, IIT Kharagpur)

M Tech (Extractive Metallurgy, IIT BHU)

BE (Metallurgical Engg., AMIIM Kolkata)

Professional Experience:

Asst. Professor (Dept. of MME, NIT Srinagar, J & K)	from 11/2018
Adj. Asst. Prof. of Practice (Dept. of MME, VNIT Nagpur, Maharashtra)	07/2018-10/2018
Adhoc faculty (Dept. of MME, NIT Jamshedpur, Jharkhand)	08/2017-05/2018
Management Trainee (Viraj Profiles Ltd, Tarapur, Maharashtra)	08/2011-08/2012
CHSWA (Indian Navy)	02/2000-08/2009

Publications in journal:

SCI/Scopus

1. S Priyadarshi, **S Mishra**, B Kumar, and G G Roy, "Effect of Different Forms of Carbon on the Reduction Behaviour of Iron Ore-Carbonaceous Material Composite Pellets in Multi-layer Bed Rotary Hearth Furnace (RHF)" Canadian Metallurgical Quarterly, 2021, 60(4), 281-293.

2. S K Behera, **S Mishra**, and M Mohapatra, " Physicochemical study of dietary fiber methylcellulose and human intestinal bile salt micellar aggregates intestinal bile salt micellar aggregates", Colloid and Interface Science Communications, 2021, 44, 100493.

3. **S Mishra**, "Review on Reduction Kinetics of Iron Ore-Coal Composite Pellet in Alternative and Sustainable Ironmaking", Journal of Sustainable Metallurgy, 2020, 6(4), 541-556.

4. Sooraj S, **S Mishra,** and G G Roy, "A simulation study of reduction kinetics for sponge iron production in a rotary Hearth furnace", Canadian Metallurgical Quarterly, 2020, 59(2), 180-188.

5. **S Mishra** and G G Roy, "Effect of CaO on the reduction behaviour of iron ore-coal composite pellets in multi-layer bed rotary hearth furnace", Ironmaking and Steelmaking, 2018, 45(5), 426-433.

6. **S Mishra** and G G Roy, "Reduction behaviour of iron ore coal composite pellets in rotary hearth furnace-Effect of pellet shape, size and bed packing material", Transactions of the Indian Institute of Metals, 2017, 70(4), 967-978.

7. B Kumar, **S Mishra**, G G Roy, and P K Sen, "Estimation of carbon dioxide emissions from rotary hearth furnace using a thermodynamic model", Steel Research International, 2017, 88(5), 1600625.

8. **S Mishra** and G G Roy, "Effect of amount of carbon on the reduction efficiency of iron ore-coal composite pellets in multi-layer bed rotary hearth furnace (RHF)", Metallurgical and Materials Transactions B, 2016, 47B, 2347-2356.

Non SCI/Scopus

1. **S Mishra**, S Priyadarshi, and G G Roy, "Effect of Temperature and Carbon content on the Performance Parameters of Iron Ore-coal Composite Pellet", MGMI Transactions, 2020, 116, 21- 29.

Publications in Conference Proceedings

1. G G Roy, **S Mishra**, and Sooraj S, "Sponge Iron Production in Rotary Hearth Furnace: Investigation towards Multi-layer Bed", Science and Technology of Ironmaking and Steelmaking, 2017, 167-170.

2. Sooraj S, **S Mishra**, and GG Roy, "Mathematical Model for Non-isothermal Reduction of Iron Ore-coal Composite Pellets in Multi-layer Bed Rotary Hearth Furnace", Science and Technology of Ironmaking and Steelmaking, 2017, 367-370.

Presentations in International Conferences:

1. **S Mishra** and G G Roy, "Effect of carbon to hematite ratio on the reduction behaviour of iron ore-coal composite pellets in multi-layer bed rotary hearth furnace (RHF)", TMS Annual Meeting and Exhibition-2017.

2. A. Gupta, R. Tripathi, **S. Mishra,** and G. G. Roy: "Non-Isothermal Model to Estimate the Rate Parameters and Thermal Efficiency for the Reduction of Iron Ore-Coal Composite Pellets in Multi-Layer Bed at Rotary Hearth Furnace", Asia Steel Conference-2015.

Presentations in National Conferences:

1. B Kumar, **S Mishra**, G G Roy and P K Sen, "Thermodynamic modelling and emission analysis for sponge iron production in a rotary hearth furnace, IIM NMD ATM-2017.

2. **S Mishra** and G G Roy, "Effect of CaO on the Reduction Behaviour of Iron Ore-Coal Composite Pellets in Multi-layer Bed Rotary Hearth Furnace (RHF)", IIM NMD ATM-2016.

3. **S Mishra** and G G Roy, "Effect of carbon to hematite ratio on the reduction behaviour of iron ore-coal composite pellets in multi-layer bed rotary hearth furnace (RHF)", IIM NMD ATM-2015.

4. **S Mishra** and G G Roy, "Reduction kinetics of iron ore coal composite pellets in rotary hearth furnace-effect of pellet shape and bed packing materials", IIM NMD ATM-2014.

Research Guidance:

1. Ph D (02 ongoing)
2. M Tech (01 completed)
3. B Tech (04 completed)

Member of Professional Bodies:

Life Member, The Indian Institute of Metals, India

Reviewer: Metallurgical and Materials Transactions B

Journal of Sustainable Metallurgy

Materials Today Proceedings

Awards and Achievements:

1. Ranked 156th in GATE (Metallurgical Engg.) in 2008.
2. Ranked 1st in the institute during diploma for the year of 1997, 1998.
3. Parsuram and Gyan award during diploma.