

Journals:

1. **SK S. Hossain**, P. K. Roy, “Waste rice husk ash derived sol as a potential cement free binder in high alumina refractory castables for high temperature applications,” *Journal of Alloys and Compounds* 817 (2020) 152806, <https://doi.org/10.1016/j.jallcom.2019.152806> (I.F.-4.650).
2. **SK S. Hossain**, Ram Pyare, P.K. Roy, “Synthesis of in-situ mullite foam using waste rice husk ash derived sol by slip-casting route,” *Ceramics International* 46(8) (2020) 10871-10878, <https://doi.org/10.1016/j.ceramint.2020.01.099> (I.F.-3.830).
3. **SK S. Hossain**, Sushma Yadav, Shreyasi Majumdar, S. Krishnamurthy, Ram Pyare, P. K. Roy, “A comparative study of physico-mechanical, bioactivity and hemolysis properties of pseudo-wollastonite and wollastonite glass-ceramic synthesized from solid wastes,” *Ceramics International* 46 (2020) 833–843, <https://doi.org/10.1016/j.ceramint.2019.09.039> (I.F.-3.835).
4. **SK S. Hossain**, P. K. Roy, “Sustainable ceramics derived from solid wastes: a review,” *Journal of Asian Ceramic Societies* (2020) <https://doi.org/10.1080/21870764.2020.1815348> (I.F.-2.653).
5. **SK S. Hossain**, Pradip K Roy, “Manufacturing of Sustainable Insulation Refractory Bricks: Utilization of Different Wastes”, *Bol. Soc. Esp. Cerám. Vidr.* 58 (2019) 115–125, <https://doi.org/10.1016/j.bsecv.2018.09.002> (I.F.-2.517).
6. **SK S. Hossain**, P.K. Roy, “Fabrication of sustainable ceramic board using solid-wastes for construction purpose”, *Construction and Building Materials* 222 (2019) 26–40, <https://doi.org/10.1016/j.conbuildmat.2019.06.126> (I.F.-4.419).
7. **SK S. Hossain**, Vikash Ranjan, R. Pyare, P. K. Roy, “Study the effect of physico-mechanical characteristics of ceramic tiles after addition of river silts and wollastonite derived from wastes”, *Construction and Building Materials* 209 (2019) 315–325, <https://doi.org/10.1016/j.conbuildmat.2019.03.128> (I.F.-4.419).
8. **SK S. Hossain**, P.K. Roy, “Development of Sustainable Calcium Silicate Board: Utilization of Different Wastes”, *Bol. Soc. Esp. Cerám. Vidr.* 58(6) (2019) 274-284, <https://doi.org/10.1016/j.bsecv.2019.06.003> (I.F.-2.517).
9. **Sk Saddam Hossain**, Lakshya Mathur, Aman Bhardwaj, Pradip Kumar Roy, “A facile route for the preparation of silica foams using rice husk ash”, *Int J Appl Ceram Technol* 16(3) (2019) 1069-1077, <https://doi.org/10.1111/ijac.13164> (I.F.-1.762).
10. **SK S. Hossain**, Lakshya Mathur, P.K. Roy, “Rice husk/rice husk ash as an alternative source of silica in ceramics: A review”, *Journal of Asian Ceramic Societies* 6(4) (2018) 299-313, <https://doi.org/10.1080/21870764.2018.1539210> (I.F.-2.653). (*Most read article according to the journal website*).
11. **SK S. Hossain**, P. K. Roy, “Studies on physical and dielectric properties of bio-wastes derived synthetic wollastonite”, *Journal of Asian Ceramic Societies* (2018) 6(3) 289–298, <https://doi.org/10.1080/21870764.2018.1508549> (I.F.-2.653).

Patent applications:

1. Pradip Kumar Roy, **Sk Saddam Hossain**, “An eco-friendly method of fabricating mullite foam and a product thereof” Filing date: April 08, **2020**; Application No: 202011015428, (TEMP/E-1/16591/2020-DEL).
2. Pradip Kumar Roy, **Sk Saddam Hossain**, “A waste derived nano- sol binder for castable refractory and a method of preparation thereof”, Filing date: APRIL 24, **2019**; Application No: 201911016335.
3. Pradip Kumar Roy, **Sk Saddam Hossain**, “Fabrication of ceramic board through room temperature curing process by utilizing waste materials”, Filing date: May 1, **2018**; Application No: 201811016452.
4. Pradip Kumar Roy, **Sk Saddam Hossain**, Ram Pyare, “Method of manufacturing of ceramics by utilizing waste materials”, Filing date: October 30, **2017**; Application No: 20171103845.

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1. **Sk S. Hossain**, S. Krishnamurthy, Ram Pyare, Pradip K. Roy, “Fabrication of sustainable bio-ceramic from solid-wastes,” **IIT (BHU), Varanasi, India** on 22-23 February, 2020.
2. **Sk S. Hossain**, Pradip K. Roy, “Preparation of in-situ mullite bonded high alumina refractory castables using solid waste extracted sol”, 3rd International Conference on waste management (Recycle 2020), **IIT-Guwahati, India** on 13-14 February, 2020.
3. **Sk S. Hossain**, Pradip K. Roy, “Fabrication of sustainable fired building bricks using solid-wastes,” 9th International Conference on Sustainable Waste management towards Circular Economy (IconSWM-CE 2019), KIIT University, **Bhubaneswar, India** on 27-29 November, **2019**.
4. **Sk S. Hossain**, Ram Pyare, Pradip K Roy, “Waste derived nano CaZrO₃ an advanced binder system for high temperature castable refractories,” International Conference on Nanotechnology for Better Living (NBL-2019), **NIT-Srinagar, India** on 7-11 April, **2019**.
5. **Sk S. Hossain**, Ram Pyare, Pradip K. Roy, “Development of Green Ceramic Board: Utilization of Different Wastes,” 82nd Annual Session of Indian Ceramic Society, TATA Steel, **Jamshedpur, India** on 9-10 January, **2019**.
6. **Sk S. Hossain**, Pradip K. Roy, “Bio-wastes as resource of raw materials for synthetic wollastonite: characterization of physical and dielectric properties,” International conference on Advanced Ceramics and Nanomaterials for Sustainable Development (ACeND-2018), Christ University, **Bangalore, India** on 19-21, September, **2018**.
7. **Sk S. Hossain**, Ram Pyare, Pradip K. Roy, “Fabrication of ceramic tiles by incorporation of different waste materials,” International Conference on Expanding Horizons of Technological Application of Ceramics and Glasses (EH-TACAG-2017), College of Engineering, **Pune, India** on 14-16 December, **2017**.