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***Patents***

1. A process for the production of high strength superwhite porcelain tile. Swapan.Kr.Das and Kausik Dana. Pat no. 234439 (67/DEL/03). INDIA
2. A synergistic composition and a process for the production of transparent frit therefrom. Swapan.Kr.Das and Kausik Dana. Pat no. 224355 (56/DEL/02). INDIA
3. A Composition of making lightweight ceramic articles and a process of making the same. H.S.Maiti, S.K.Das, R.Sarkar. K.Dana and S.Ghatak. Pat no. 255285. (673/DEL/2006)
4. A process of making organophilic nanoclay with enhanced thermal stability, Dana Kausik, Mukhopadhyay Kumar Tapas, Madhuchhanda Sarkar, Saheli Ganguly, Ghatak Sankar , 0064NF2013 Date: 03-Apr-2013
5. A process of making ceramic catalyst for enhancing mullite content of ceramic blank in the aluminosilicate system Dana Kausik, Mukhopadhyay Kumar Tapas, Ganguly Saheli, Sarkar Madhuchhanda, Ghatak Sankar, 0065NF2013, dated 03-Apr-2013

***Paper/ poster presentations:***

1. Contributory lecture on Kinetic solutions for thermal processing of ceramic materials, Kausik Dana, Somnath Sinhamahapatra and Mostofa Shamim, 88th Annual Session of the Indian Ceramic Society Cera4s 2024 28-30 Nov, 2024
2. Contributory lecture on Non-isothermal Kinetic Analysis of Sintering of a Clay-Based CeramicsNational Symposium on Sintering (NSS-2024) organized by at IIT Patna during 16-18 May 2024.
3. Contributory talk on Modification of Sintering Behaviour and Fired Properties of Terracotta , authored by Sk. Abdur Rakib S Sinhamahapatra, Kausik Dana* at International conference on exploring the emerging world of ceramics & glass on December 19-21, 2023 organized by the Indian Ceramic Society at CSIR-CGCRO Kolkata.
4. Contributory talk on Evolution of the Non-stoichiometric Spinel Phase During Reaction Sintering of MgO-Al2O3 System, authored by *S. Sinhamahapatra**, K. Dana, V. P. Reddy, H. S. Tripathi * at International conference on exploring the emerging world of ceramics & glass on December 19-21, 2023 organized by the Indian Ceramic Society at CSIR-CGCRO Kolkata.

5. Contributory lecture titled Kinetic modeling of thermo-analysis data for ceramic processing and its validation at International Training Workshop on 'Use of Analytical & Modeling Tools Tailored to Country Needs', organized by ASRT , Egypt and NAM S&T Centre on April 6-7, 202
6. Oral presentation Improved indentation hardness of geopolymers by partial replacement of metakaolin with terracotta waste, Madhuchhanda Sarkar, Shirshendu Chakraborty, Kausik Dana, International Virtual Conference on Advances in Ceramics & Cement Technologies:Materials and Manufacturing held on 13-14 Dec 2021, IvaCCT-2-21 at PDA College of Engineering, Kalaburagi, Karnataka-585102.
7. Contributory lecture by P.Mukherjee and K.Dana , Formation of Cordierite in Talc-Kaolin-Alumina system, National Seminar on "Propelling Innovations in Glass And Ceramics For Atmanirbhar Bharat", Indian Ceramic Society, Kolkata Chapter & CSIR-CGCRI, Kolkata, 11-12 December, 2020

8. Invited lecture on "Imparting functionality to clays by manipulating the interlayer chemistry" by Kausik Dana at 19$^{th}$ Annual convention and National Conference on Application of clay scince in agriculture , environment and industry, organized by The Clay Minerals Society of India and ICAR, Paribesh Bhawan, Koltata on 7-8 Aug 2015

9. Contributory lecture on Imparting functionality to clays by manipulating the interlayer chemistry" by Kausik Dana at Workshop on Indian Innovations in Materials Research: New Materials and Processes (IIMR-15), Organized by CSIR-CGCRI & IAPQR at CSIR-CGCRI, Kolkata; June 25-27, 2015.

10. Training given to members of Bangabhoomi Refractory Cluster on "Basic Refractory for Metallurgical Industries: Perspective of Indian Raw Materials" as instructor and Co-convener,20 March 2015, CGCRI, Kolkata
11. Poster presentation: "Mechanistic pathway for thermal decomposition of Layered double hydroxides" authored by Mostofa Shamim, **Kausik Dana**, presented at RAPT 2014-an international conference and expo at University of Calcutta, 22-24$^{th}$ Jan, 2014
12. Oral presentation: "Pyrophyllite dehydroxylation- kinetic evaluation of mechanistic pathway"- authored by Mostofa Shamim, Atiar Rahaman Mollah, Tapas Kumar Mukhopadhyay, **Kausik Dana**; presented at the international conference on of Advancements Polymeric Material (APM)-2014, 14-16$^{th}$ Feb at CIPET-Bhubaneswar.
13. "Thermal decomposition kinetics of layered double hydroxides"- authored by Mostofa Shamim, **Kausik Dana**, presented at 'Indian Chemical Engineering Congress' –2014, (67$^{th}$ Annual Session of Indian Institute of Chemical Engineers, CHEMCON –2014, ,pg-233-234), 27–30$^{th}$ Dec at Panjab University Chandigarh.

**14.** Poster presentation: "Mechanistic pathway for thermal decomposition of Layered double hydroxides"; authored by Mostofa Shamim, **Kausik Dana**, presented at the Research Scholar Day: 2nd Annual Workshop of CSIR-CGCRI, Kolkata, 20th August, 2013.

**15.** Technical paper presentation: "Non-isothermal Kinetic Evaluation of Pyrophyllite Dehydroxylation**"** authored by Mostofa Shamim, Atiar Rahaman Mollah, Tapas Kumar Mukhopadhyay, **Kausik Dana**, presented at the 77th Annual session of The Indian ceramic society at Jamshedpur, 19-20th Dec,2013

16. Oral presentation: "Dynamic evaluation of reaction sintering in MgO-Al2O3 system: effect of stoichiometry and additive , **K. Dana**, S. Sinhamahapatra, H. S. Tripathi, V.P.Reddy & A. Ghosh Advances in Refractory Raw Materials-ARMM2013, CSIR-CGCRI Kolkata. 12-13 Nov 2013.
17. Comparative Study of Organic-Inorganic Hybrids Prepared from Montmorillonites Intercalated with Alkyl-Ammonium and Alkyl-Phosphonium Ions" authored by Saheli Ganguly, **Kausik Dana** & Sankar Ghatak at the 20th AGM and symposium on "*New Generation composites & Hybrid materials: Concepts to Applications"* organized by MRSI on 10-12 Feb, 2009 at SINP, Kolkata.
18. Studies on Indian Bentonite as a precursor to organophillic nanoclay authored by Madhuchhanda Sarkar, **Kausik Dana**, Sankar Ghatak, presented at 72nd Annual session of The Indian ceramic society at Jaipur, 28-30 Jan 2009.
19. Characterization of organic-inorganic hybrids prepared from n-alkylammonium- intercalated Montmorillonites authored by Saheli Ganguly, Kausik Dana, Sankar Ghatak presented at 72nd Annual session of The Indian ceramic society at Jaipur, 28-30 Jan 2009
20. Utilisation of fly ash in triaxial composition as substitution of quartz for the manufacture of ceramic tiles. **Kausik Dana** and Swapan Kr.Das, presented at Asia pacific conclave on coal combustion products: Technology and management, organized by CAAII on 23-25 Feb 2007 ,held at Hotel Taj Bengal, Kolkata.
21. Polymer- clay composite prepared from pristine Indian bentonite, Madhuchhanda Sarkar. **Kausik Dana**, Sankar Ghatak and A.N.Bandopadhyay, presented at CERATEC 2007 on 8-10 Jan, 70th Annual session of InCerS held in Andhra University, Vizag.
22. New building construction materials : emerging opportunities". National seminar on building construction materials and equipments, Swapan K. Das, Tapas K. Mukhopadhyay, Ritwik Sarkar, **Kausik Dana**, Syamal Ghosh and Sankar Ghatak , *Inst.of Chem .Enggs., Jadavpur University, 20Aug 2005.*
23. Glittering effect on glazed surface through the development of aventurine glaze using waste red mud- an exploratory study. **Kausik Dana** , Ritwik Sarkar and S K.Das Presented at the 69th Annual session of *The Indian Ceramic Society*, Jamshedpur,28-29 Dec 2005.

24. Phase and microstructural evolution in waste-incorporated $K_2O$-$Al_2O_3$-$SiO_2$ system. Presented at 'Young Scientist Colloquia' organized by MRSI, Kolkata held at B.E.College, Shibpur on 9 July,2004.
25. Paper presented "Low shrinkage clays for wall tile body." **Kausik Dana**, Nar Singh,T.K.Mukhopadhyay ,Swapan Kr Das. In International Seminar on Clay and Ceramic materials, Bikaner,15-17 Feb,2004 organized by *Dept. of Mines* and *Ind,Cer,Soc*.
26. Poster presented: "Prediction of thermal behaviour of commercial glazes- a statistical approach" **Kausik Dana** and Swapan Kr. Das ,67$^{th}$ Annual session of *The Indian Ceramic Society*, 9-11Jan 2004, Chennai.
27. Poster presented: "Some studies on single fast fired wall tile frit composition for tile Industries" **Kausik Dana**, A.K.Kaviraj and Swapan Kr. Das,66$^{th}$ Annual session of *The Indian Ceramic Society*, 7-9 Dec 2003, Kolkata
28. Paper presented: "Some studies on multipurpose body composition for tile Industries" **Kausik Dana** and S K. Das, 65$^{th}$ Annual session of *The Indian Ceramic Society*, 23-24 Jan 2002 ,Jaipur.
29. Poster presented "Effect of $ZrO_2$ on the sintering behaviour of co-precipitated MgO: $Al_2O_3$ precursor powder". **Kausik Dana**, Ritwik Sarkar, Swapan.Kr.Das, N.K.Mitra .in seminar on 'Refractories, coatings and advanced ceramics' organized by *The Indian Ceramic Society*, 20 April 2002, Bangalore.