

Chemistry Faculty



EDUCATION

RESEARCH

PUBLICATIONS

ACTIVITY & AWARDS

Conrad W. Ingram
Chair, Professor

Faculty member since 2002

Specialty: Chemistry (Inorganic and Materials)

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EDUCATION

Ph.D. and B.Sc., University of the West Indies (Mona Campus)

RESEARCH

Our research group is focused on the design and synthesis of inorganic and inorganic and inorganic-organic porous materials for applications as redox, acid-base and photo-catalysts, radio-luminescent and florescent base sensors, magnetic materials, and adsorbents. We are focused on the application of a wide range of analytical instrumentation in chemical analysis.

PUBLICATIONS:

<https://scholar.google.com/citations?user=V1sYYU8AAAAJ&hl=en>
Using Adaptive Learning Courseware as a High-Impact Practice to Improve Students' Learning Outcomes in General Chemistry II at an HBCU "Conrad W. Ingram, Eric Mintz and Daniel Teodorescu, *Peer Review*, AAC& U, 2019 (In Press)

1. Synthesis, structure, and photoluminescence properties of lanthanide based metal organic frameworks and a cadmium coordination polymer derived from 2,2'-diamino-trans 4,4'-stilbenedicarboxylate, Saki T. Golafale, John Bacsa, Conrad W. Ingram, and Kyril M. Solntsev, *Inorganica Chimica Acta*, **2018**, 478, 243-249.
2. Anthracene-Based Lanthanide Metal-Organic Frameworks: Synthesis, Structure, Photoluminescence, and Radioluminescence Properties, Stephan R. Mathis II, Saki T. Golafale, Kyril M. Solntsev, and Conrad W. Ingram, *Crystals* **2018**, 8(1), 53.
3. Mesoporous Stilbene-based Lanthanide Metal Organic Frameworks: Synthesis, Photoluminescence and Radioluminescence Characteristics, Stephan R. Mathis II, Saki T. Golafale, John Bacsa, Alexander Steiner, Conrad W. Ingram, F. Patrick Doty, Elizabeth Auden and Khalid Hattar, *Dalton Trans.*, **2017**, 46, 491-500.
4. Hydrogen bonded Co(II) Coordination Complex and a Triply Interpenetrating 3-D Manganese(II) Coordination Polymer from a Diaza Crown Ether with Dibenzoate Sidearms Liang Liao, Conrad W. Ingram, John Bacsa, Daniel Sabo, Z. John Zhang Tandabany Dinadayalane, *CrystEngCommun*, **2016**, DOI: 10.1039/C6CE00360E
5. Complex 3D- lanthanide metal-organic frameworks with variable coordination spheres based on pyrazine-2,3,5,6-tetracarboxylate, Conrad W. Ingram, Geoffrey Kibakaya, John Bacsa, Stephan R. Mathis (II), Alvin A. Holder, Varma H. Rambaran, Brandon Dennis, Esmeralda Castaneda, *CrystEngCommun*, **2015**, 17, 5377-5388 FEATURED COVER ARTICLE
6. Nano-Snowflower of Gold Nanoparticles-Ruthenium Metallopolymers-Carbon Nanotubes Binding Anti-DNP IgE Antibody, Li, H.; Wu, J.; Melnychuk, J. M.; Olubi, O.; Lewis, L. I.; Cao, Y.; Nagappan, P.; Khan, S. A.; Conrad, C. W.; Harruna, I. I., *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 1-8
7. Novel layered 2D and triply interpenetrating 3D cobalt-diazo crown ether benzene carboxylate based coordination polymers: Synthesis, structure and magnetic properties, Conrad W. Ingram*, Liang Liao, John Bacsa, Issifu Harruna, Daniel Sabo and Z. John Zhang, **2013**, [dx.doi.org/10.1021/cg301480s](https://doi.org/10.1021/cg301480s). *Crystal Growth and Design*.
8. Mesoporous I-Ag codoped titania and alumina modified titania catalysts: Synthesis, characterization and photocatalytic properties. Liang Liao, Conrad W. Ingram, *Appl. Catal.* **2012**, 433-434 18-25,
9. Poly[4-(4-vinylbenzyloxy)-2-hydroxybenzaldehyde] for Rapid Removal of Low Concentration of Pb(II), Prince Amoyaw,

Conrad Ingram, Fu-Lian Hsu, Xiu R. Bu, *J. Appl. Poly. Sci.* **2009**, 113(4), 2096-2102.

- 10.** Ruthenium- Centered Thermosensitive Polymers, G. Zhou, I. I. Harruna, and C. W. Ingram, *Polymer* **2005**, 46, 10672-10677.
- 11.** Characteristics of Synthetic Heulandite-Clinoptilolite Family of Zeolite; D. Zhao, K. Cleare, C. Oliver, C. W. Ingram, D. Cook, R. Szostak and L. Kevan, *Micropor. and Mesopor. Mater.* **1998**, 21 371-379.
- 12.** Metal Substituted Aluminophosphate Molecular Sieves as Phenol Hydroxylation Catalysts; C. W. Ingram, P. E. Dai, R. H. Petty, and R. Szostak; *Applied Catalysis A: General* **1996**, 143 101-110.
- 13.** Ferrierite Zeolite: As Synthesized and Dealuminated from 10 to Infinity; K. Vinje, C. W. Ingram, R. Szostak and K. Lillerud; *Synthesis of Porous Materials*, Ch. 18, *Chemical Industries Series 69*, M. Ocelli and H. Kessler (eds.), Marcel Dekker, New York, 1996
- 14.** On the Formation of C₃ Species During the Conversion of Ethanol using H-ZSM-5 Catalyst; C. W. Ingram, R. Lancashire; *Catalysis Letters* **1995**, 31 395-403.
- 15.** A Microwave Digestion-Based Determination of Low Molecular Weight Organic Acids in Bayer Process Liquor; A. Baker, A. Greenaway and C. W. Ingram; *Talanta*, **1995**, 42 10 1355,.

ACTIVITIES & AWARDS