

# Stanford

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## Robert Feigelson

Professor (Research) of Materials Science and Engineering, Emeritus

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Materials Science and Engineering

### Publications

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#### PUBLICATIONS

- **Crystal growth History: Theory and melt growth processes** *JOURNAL OF CRYSTAL GROWTH*  
Feigelson, R. S.  
2022; 594
- **Field-tuned ferroquadrupolar quantum phase transition in the insulator TmVO<sub>4</sub>.** *Proceedings of the National Academy of Sciences of the United States of America*  
Massat, P., Wen, J., Jiang, J. M., Hristov, A. T., Liu, Y., Smaha, R. W., Feigelson, R. S., Lee, Y. S., Fernandes, R. M., Fisher, I. R.  
2022; 119 (28): e2119942119
- **High speed growth of SrI<sub>2</sub> scintillator crystals by the EFG process** *JOURNAL OF CRYSTAL GROWTH*  
Calvert, G., Guguschev, C., Burger, A., Groza, M., Derby, J. J., Feigelson, R. S.  
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- **The application of floating dies for high speed growth of CsI single crystals by edge-defined film-fed growth (EFG)** *JOURNAL OF CRYSTAL GROWTH*  
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2014; 404: 231-240
- **Characterization of light output and scintillation emission in CsI(Tl), NaI(Tl), and LaBr<sub>3</sub>(Ce) under isostatic pressure** *8th International Conference on Luminescence Detectors and Transformers of Ionizing Radiation (LUMDETR)*  
Gascon, M., Lam, S., Wang, S., Curtarolo, S., Feigelson, R. S.  
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- **Nonproportionality and Scintillation Responses of LSO:Ce From 4.3 to 300 K** *Symposium on Radiation Measurements and Applications (SORMA)*  
Lam, S., Gascon, M., Podowitz, S., Curtarolo, S., Feigelson, R. S.  
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- **Analysis of scintillator crystal production via the edge-defined film-fed growth method** *SPIE Conference on Hard X-Ray, Gamma-Ray, and Neutron Detector Physics XV*  
Yeckel, A., Feigelson, R. S., Derby, J. J.  
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- **Nonproportionality and Scintillation Studies of Eu:SrI2 From 295 to 5 K** *IEEE TRANSACTIONS ON NUCLEAR SCIENCE*  
Lam, S., Gascon, M., Hawrami, R., Setyawan, W., Curtarolo, S., Feigelson, R. S., Gaume, R. M.  
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- **Probing grain boundaries in ceramic scintillators using x-ray radioluminescence microscopy** *JOURNAL OF APPLIED PHYSICS*  
Podowitz, S. R., Gaume, R. M., Feigelson, R. S.  
2012; 111 (1)
- **High-Throughput Combinatorial Database of Electronic Band Structures for Inorganic Scintillator Materials** *ACS COMBINATORIAL SCIENCE*  
Setyawan, W., Gaume, R. M., Lam, S., Feigelson, R. S., Curtarolo, S.  
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- **Fabrication and Properties of Translucent SrI2 and Eu:SrI2 Scintillator Ceramics** *IEEE TRANSACTIONS ON NUCLEAR SCIENCE*  
Podowitz, S. R., Gaume, R. M., Hong, W. T., Laouar, A., Feigelson, R. S.  
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- **Effect of Europium Concentration on Densification of Transparent Eu:Y2O3 Scintillator Ceramics Using Hot Pressing** *JOURNAL OF THE AMERICAN CERAMIC SOCIETY*  
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- **Correlation between dislocation etch pits and optical absorption in CdGeAs<sub>2</sub>** *JOURNAL OF CRYSTAL GROWTH*  
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- **Optical absorption and electron-nuclear double resonance study of Ni<sup>+</sup> ions in AgGaSe<sub>2</sub> crystals** *JOURNAL OF PHYSICS-CONDENSED MATTER*  
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• **Effects of reduction treatment on the photorefractive properties of Pb<sub>0.5</sub>Ba<sub>0.5</sub>Nb<sub>2</sub>O<sub>6</sub> OPTICAL MATERIALS**

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• **Thermal gradient control at the solid-liquid interface in the laser-heated pedestal growth technique JOURNAL OF CRYSTAL GROWTH**

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## PRESENTATIONS

- The Preparation and Orientation of EFG Grown SrI<sub>2</sub> Crystals - 8th International Symposium on Optical Materials (6/9/2019 - 6/14/2019)