



## Mohammad Reza Bafandeh

Assistant Professor

College: Faculty of Engineering

Department: Metallurgical Engineering

### Papers in Conferences

1. شانزدهمین، Ni-P-SiO<sub>2</sub> علیرضا یزدان پناه و محمدرضا بافنده، بررسی مقاومت به خوردگی پوشش الکتروکاتالیست کامپوزیتی. همایش علمی دانشجویی مهندسی مواد و متالورژی، ۲۶، ۰۸، ۹۸
2. علیرضا یزدان پناه ، محمدرضا بافنده ، محمود منیرواقفی ، مرتضی صفری، بررسی تاثیر حضور ذرات اکسید سیلیسیم در پوشش کامپوزیتی الکتروکاتالیست نیکل فسفر، بیستمین همایش ملی مهندسی سطح، ۱۵، ۱۱، ۹۸
3. علی اکبر مهدیان ریزی ، محمدرضا بافنده ، حامد امینی، تاثیر کاربرد سیلیسیم بر خواص پوشش الکتروکاتالیست کامپوزیتی. نیکل فسفر حاوی دی سولفید مولیبدن، هشتمین کنفرانس بین المللی مهندسی مواد و متالورژی، ۱۵، ۰۷، ۹۸

### Papers in Journals

1. Abbas Sadeghzadeh-Attar , Iman Akhavan-Safaei , Mohammad Reza Bafandeh, UV-visible absorption and photoluminescence characteristics of SnO<sub>2</sub> nano-tube/wire arrays fabricated by LPD method, International Journal of Applied Ceramic Technology, 25 01 2018.
2. Aisyah Devita Mukhlisah · Sang-Hun Lee · Trang An Duong · Hyoung-Su Han · Mohammad Reza Bafandeh · Jae-Shin Lee, Characterization of 0.74(Bi<sub>0.5</sub>Na<sub>0.5</sub>)TiO<sub>3</sub>.0.26SrTiO<sub>3</sub> Lead-Free Piezoceramic Fabricated via Conventional and Microwave Sintering, Journal of Electronic Materials, 2022 09 22.
3. Trang An Duong, Chang Won Ahn, Byeong Woo Kim, Mohammad Reza Bafandeh, Hyoung Su Han, Jae Shin Lee, Effects of SrTiO<sub>3</sub> Modification on the Piezoelectric and Strain Properties of Lead-Free K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub>.Based Ceramics, Journal of Electronic Materials, 2022 01 12.
4. Abbas Sadeghzadeh , Attar , Mohammad Reza Bafandeh, The effect of annealing temperature on the structure and optical properties of well-aligned 1D SnO<sub>2</sub> nanowires synthesized using template-assisted deposition, CrystEngComm, 2017 12 14.
5. Structural and Optical Properties of Sr-Modified Bismuth Silicate Nanostructured Films Synthesized by Sol Gel Method, Journal of Nanostructures, 2017 10 01.
6. Mohammad Reza Bafandeh , Ali Omidi , Abdullah Irankhah, In situ coating of low carbon steel with Ni-Al-Fe powder mixture via mechanical alloying, Surface & Coatings Technology, 2017 02 20.
7. Mohammad Reza Bafandeh , Raziye Gharakhani , Mohammad Hossein Fathi, Fabrication, Characterization and Osteoblast Response of Cobalt-Based Alloy/Nano Bioactive Glass Composites, Journal of Advanced Materials and Processing, 2016 09 25.
8. Mohammad Reza Bafandeh , Raziye Gharakhani , Mohammad Hossein Fathi, Characterization of fabricated cobalt-based alloy/nano bioactive glass composites, Materials Science and Engineering C, 2016 07 21.
9. Thi Hinh Dinh et al., Comparison of structural, ferroelectric, and strain properties between A-site donor and acceptor doped Bi<sup>1/2</sup>(Na<sub>0.82</sub>K<sub>0.18</sub>)<sup>1/2</sup>TiO<sub>3</sub> ceramics, Ceramics International, 2015 03 31.
10. Mohammad Reza Bafandeh , Raziye Gharakhani , Jae , Shin Lee, Dielectric and piezoelectric

properties of sodium potassium niobate based ceramics sintered in microwave furnace, *Materials Chemistry and Physics*, 2015 03 11.

11. Thi Hinh Dinh et al., Ergodicity and Nonergodicity in La-doped  $\text{Bi}_{1/2}(\text{Na}_{0.82}\text{K}_{0.18})_{1/2}\text{TiO}_3$  Relaxors, *Journal of the Korean Physical Society*, 2014 11 26.

12. Mohammad Reza Bafandeh , Raziye Gharahkhani , Jae , Shin Lee, Sintering behavior, dielectric and piezoelectric properties of sodium potassium niobate-based ceramics prepared by single step and two-step sintering, *Ceramics International*, 2014 08 23.

13. Mohammad Reza Bafandeh, Hamid Mir Mojarrabian & Ali Doostmohammadi, Poly (Vinyl Alcohol)/Chitosan/Akermanite Nanofibrous Scaffolds Prepared by Electrospinning, *Journal of Macromolecular Science*, 20 5 2019.

14. Mohammad Reza Bafandeh , Hyoung-Su Han , Jae , Shin Lee, Enhanced electric field induced strain in complex-ion  $\text{Ga}^{3+}$  and  $\text{Ta}^{5+}$ -doped  $0.93\text{BNT}-0.07\text{BT}$  piezoceramic, *Journal of Electroceramics*, 20 08 2021.

15. Structure and dielectric behaviour of Sr-modified  $\text{Bi}_4\text{Si}_3\text{O}_{12}$  thin films prepared via sol gel method, *Processing and Application of Ceramics*, 10 5 2018.

16. Mohammad Reza Bafandeh , Jae , Shin Lee, Two-step sintering of  $0.93\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3-0.07\text{BaTiO}_3$  lead-free piezoelectric material, *Ceramics International*, 06 07 2021.

17. Abbas Sadeghzadeh-Attar , & Mohammad Reza Bafandeh, Effect of annealing on UV-visible absorption and photoluminescence behavior of liquid phase deposited  $\text{TiO}_2$  nanorods, *International Journal of Applied Ceramic Technology*, 02 05 2019.