

S Premkumar

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

166
citations

1307594

7
h-index

1281871

11
g-index

23
all docs

23
docs citations

23
times ranked

186
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Key issues and challenges in device level fabrication of MEMS acoustic sensors using piezo thin films doped with strontium and lanthanum. Journal of Materials Science: Materials in Electronics, 2022, 33, 11271-11280. | 2.2 | 2 |
| 2 | Understanding A and B-site engineered lead-free $Ba_{1-x}Ca_xZr_yTi_{1-y}O_3$ piezoceramics: a perspective from DFT. Journal of Materials Chemistry C, 2021, 9, 4248-4259. | 5.5 | 12 |
| 3 | Migration of Conventional PZT to Thin Film PZT for Underwater Acoustic Sensing Applications. , 2021, , . | | 0 |
| 4 | Enhanced strain derivative of Ho substituted cobalt ferrite and improved magnetoelectric coupling in co-sintered bi-layered ME composites. Sensors and Actuators A: Physical, 2020, 301, 111716. | 4.1 | 7 |
| 5 | Surface modification of UHMWPE using ECR plasma for osteoblast and osteoclast differentiation. Applied Surface Science, 2020, 506, 144665. | 6.1 | 16 |
| 6 | A comprehensive study of pressure dependent phase transitions in ferroelectric $PbTiO_3$, $PbZrO_3$ and $BaTiO_3$. Materials Chemistry and Physics, 2020, 254, 123545. | 4.0 | 15 |
| 7 | Structural and morphological tuning of iron oxide polymorphs by ECR plasma-assisted thermal oxidation. RSC Advances, 2020, 10, 32088-32101. | 3.6 | 5 |
| 8 | Design, analysis and experimental investigation of a rotational piezoelectric energy harvester with storage system. Journal of Mechanical Science and Technology, 2020, 34, 4475-4487. | 1.5 | 8 |
| 9 | Effect of Sr and La co-doping on structural and electrical properties of RF sputtered PZT thin films. Materials Research Express, 2020, 7, 026406. | 1.6 | 7 |
| 10 | Magnetic and magnetostrictive properties of tape casted free standing NZFO thick films and its composite with piezoelectric phase. Journal of Magnetism and Magnetic Materials, 2019, 490, 165523. | 2.3 | 7 |
| 11 | Effect of co-sintering time on magnetoelectric response of $Pb_{0.895}Sr_{0.06}La_{0.03}(Zr_{0.56}Ti_{0.44})O_3$ multilayer $\text{Ni}_{0.6}Zn_{0.4}Fe_2O_4$ composite fabricated by tape casting. Journal of Applied Physics, 2019, 126, . | 2.5 | 2 |
| 12 | Ferroelectric and piezoelectric properties of PSLZT multilayer / NZFO co-sintered magnetoelectric composites fabricated by tape casting. Journal of the European Ceramic Society, 2019, 39, 5267-5276. | 5.7 | 5 |
| 13 | Studies on ferroelectric and nanomechanical response of single-layered PZT thick film for energy harvester applications. Ferroelectrics, 2019, 551, 17-23. | 0.6 | 5 |
| 14 | Improved ferroelectric and piezoelectric properties of tape casted free standing PSLZT thick films. Materials Research Express, 2019, 6, 026303. | 1.6 | 9 |
| 15 | First-principles study of polarization and piezoelectric properties of $PbZrO_3$. AIP Conference Proceedings, 2018, , . | 0.4 | 2 |
| 16 | Microstructural evolution of $0.75PMN \text{--} 0.25PT$ ferroelectrics synthesized by hydroxide co-precipitation method and their dielectric properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 5485-5497. | 2.2 | 4 |
| 17 | Dielectric and ferroelectric properties of $(1-x)PMN \text{--} (x)PT$ synthesized by co-precipitation method. Ferroelectrics, 2017, 516, 8-17. | 0.6 | 7 |
| 18 | Microstructural analysis of co-sintered PSLZT-NZFO layered magnetoelectric composite. Ferroelectrics, 2017, 516, 60-66. | 0.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Rheology studies of NTO-TNT based melt-cast dispersions and influence of particle-dispersant interactions. Powder Technology, 2015, 273, 118-124. | 4.2 | 17 |
| 20 | Lithium niobate nanoparticle-coated Y-coupler optical fiber for enhanced electro-optic sensitivity. Optics Letters, 2015, 40, 491. | 3.3 | 12 |
| 21 | Behaviour of Pb (Ni _{1/3} Sb _{2/3})O ₃ -PbZrTiO ₃ ferroelectric ceramics under cyclic electric loading. Journal of Materials Science: Materials in Electronics, 2013, 24, 1989-1993. | 2.2 | 5 |
| 22 | Characterization of PZT multi-layer actuator. , 2012, , . | | 2 |
| 23 | Structure - property correlation of precipitation hardened AZ91 magnesium alloy. Materials Science and Technology, 2004, 20, 835-838. | 1.6 | 12 |