

Chinnathambi Karthik

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,010
citations

516710

16
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

1253
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Tunable bandgap in BiFeO ₃ nanoparticles: The role of microstrain and oxygen defects. Applied Physics Letters, 2013, 103, . | 3.3 | 235 |
| 2 | Microstructural characterization and pore structure analysis of nuclear graphite. Journal of Nuclear Materials, 2011, 415, 189-197. | 2.7 | 96 |
| 3 | Flexible Thermoelectric Devices of Ultrahigh Power Factor by Scalable Printing and Interface Engineering. Advanced Functional Materials, 2020, 30, 1905796. | 14.9 | 93 |
| 4 | In situ transmission electron microscopy of electron-beam induced damage process in nuclear grade graphite. Journal of Nuclear Materials, 2011, 412, 321-326. | 2.7 | 85 |
| 5 | Microstructural Characterization of Next Generation Nuclear Graphites. Microscopy and Microanalysis, 2012, 18, 272-278. | 0.4 | 71 |
| 6 | A microprobe technique for simultaneously measuring thermal conductivity and Seebeck coefficient of thin films. Applied Physics Letters, 2010, 96, . | 3.3 | 55 |
| 7 | Neutron irradiation induced microstructural changes in NBG-18 and IG-110 nuclear graphites. Carbon, 2015, 86, 124-131. | 10.3 | 52 |
| 8 | Magnetic and electrocatalytic properties of transition metal doped MoS ₂ nanocrystals. Journal of Applied Physics, 2018, 124, . | 2.5 | 42 |
| 9 | An oxygen transfer model for high purity graphite oxidation. Carbon, 2013, 59, 49-64. | 10.3 | 37 |
| 10 | Effect of Ca ²⁺ Substitution on the Structure, Microstructure, and Microwave Dielectric Properties of Sr ₂ Al ₂ SiO ₇ Ceramic. Journal of the American Ceramic Society, 2013, 96, 3842-3848. | 3.8 | 35 |
| 11 | Formation of carbon nanostructures in nuclear graphite under high-temperature in situ electron-irradiation. Carbon, 2019, 143, 908-914. | 10.3 | 28 |
| 12 | A macro-scale ruck and tuck mechanism for deformation in ion-irradiated polycrystalline graphite. Carbon, 2021, 173, 215-231. | 10.3 | 27 |
| 13 | High-Performance Flexible Bismuth Telluride Thin Film from Solution Processed Colloidal Nanoplates. Advanced Materials Technologies, 2020, 5, 2000600. | 5.8 | 26 |
| 14 | Crystal Structure and Microwave Dielectric Properties of LiRE ₉ (SiO ₄) ₆ O ₂₄ Ceramics (RE = La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu). Journal of the American Ceramic Society, 2018, 101, 211-218. | 3.8 | 24 |
| 15 | Fullerene-like defects in high-temperature neutron-irradiated nuclear graphite. Carbon, 2020, 166, 113-122. | 10.3 | 20 |
| 16 | Experimental evidence for "buckle, ruck and tuck"™ in neutron irradiated graphite. Carbon, 2020, 159, 119-121. | 10.3 | 19 |
| 17 | Oriented Nanocrystal Arrays of Selectable Polymorphs by Chemical Sculpture. Chemistry of Materials, 2009, 21, 3197-3201. | 6.7 | 16 |
| 18 | Threshold conductivity switching in sulfurized antimony selenide nanowires. Applied Physics Letters, 2011, 99, . | 3.3 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Metal–dielectric interface toughening by molecular nanolayer decomposition. Journal of Applied Physics, 2010, 108, 034317. | 2.5 | 9 |
| 20 | Paramagnetic defects in hydrothermally grown few-layered MoS ₂ nanocrystals. Journal of Materials Research, 2018, 33, 1565-1572. | 2.6 | 9 |
| 21 | A new oxidation based technique for artifact free TEM specimen preparation of nuclear graphite. Journal of Nuclear Materials, 2018, 505, 62-68. | 2.7 | 8 |
| 22 | Proton irradiation effect on thermoelectric properties of nanostructured n-type half-Heusler Hf _{0.25} Zr _{0.75} NiSn _{0.99} Sb _{0.01} . Applied Physics Letters, 2018, 112, 243902. | 3.3 | 8 |
| 23 | The Temperature Dependence of Defect Evolution in Irradiated Graphite. Microscopy and Microanalysis, 2019, 25, 1568-1569. | 0.4 | 0 |