

# Varghese Swamy

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,611  
citations

186209

28  
h-index

175177

52  
g-index

60  
all docs

60  
docs citations

60  
times ranked

5448  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Effects of dispersed multiwalled carbon nanotubes on the micro-explosion and combustion characteristics of 2-methylfuran " diesel mixture droplets. <i>Fuel</i> , 2022, 316, 123308.                                 | 3.4  | 14        |
| 2  | Low hysteresis relative humidity sensing characteristics of graphene oxide"gold nanocomposite coated langasite crystal microbalance. <i>Surfaces and Interfaces</i> , 2021, 23, 100964.                              | 1.5  | 13        |
| 3  | Strain Engineering to Release Trapped Hole Carriers in p-Type Haeckelite GaN. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5257-5264.  | 2.0  | 1         |
| 4  | Polymer-Free 2-D Heterostructure Transfer Onto Quartz Crystal Microbalance Electrode Surface: Method and Sensing Characteristics. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 3241-3248. | 2.4  | 2         |
| 5  | Tensile properties of hydrogenated hybrid graphene"hexagonal boron nitride nanosheets: a reactive force field study. <i>Molecular Simulation</i> , 2020, 46, 1220-1229.  | 0.9  | 6         |
| 6  | Linear versus Branched Peptide with Same Amino Acid Sequence for Legumain"Targeting in Macrophages: Targeting Efficiency and Bioimaging Potential. <i>ChemistrySelect</i> , 2020, 5, 9911-9919.                      | 0.7  | 2         |
| 7  | A Langasite Crystal Microbalance Coated with Graphene Oxide-Platinum Nanocomposite as a Volatile Organic Compound Sensor: Detection and Discrimination Characteristics. <i>Sensors</i> , 2020, 20, 334.              | 2.1  | 9         |
| 8  | QCM-Micropillar-Based Coupled Resonators in the Detection of Gas Mass Flow Rates. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 303-305.   | 2.4  | 11        |
| 9  | Enhancing moisture tolerance in efficient hybrid 3D/2D perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2122-2128.   | 5.2  | 163       |
| 10 | Revisiting seismic hazard assessment for Peninsular Malaysia using deterministic and probabilistic approaches. <i>Natural Hazards and Earth System Sciences</i> , 2018, 18, 2387-2408.                               | 1.5  | 19        |
| 11 | Smartphone Display Based Photolithography to Fabricate Microdevices. <i>IEEE Access</i> , 2018, 6, 35713-35719.  | 2.6  | 0         |
| 12 | Multilayer graphene electrodes for one-port surface acoustic wave resonator mass sensor. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 024301.  | 0.8  | 7         |
| 13 | Improving combustion characteristics of diesel and biodiesel droplets by graphite oxide addition for diesel engine applications. <i>International Journal of Energy Research</i> , 2017, 41, 2258-2267.              | 2.2  | 31        |
| 14 | Controlling electron and energy transfer paths by selective excitation in a zinc porphyrin"BOBIPY" multi-modular triad. <i>Nanoscale</i> , 2017, 9, 18054-18065.   | 2.8  | 14        |
| 15 | Nanostructuring Mixed-Dimensional Perovskites: A Route Toward Tunable, Efficient Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 3653-3661.   | 11.1 | 251       |
| 16 | Low cost batch fabrication of microdevices using ultraviolet light-emitting diode photolithography technique. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2016, 15, 010501.                          | 1.0  | 3         |
| 17 | An optimal thermal evaporation synthesis of c-axis oriented ZnO nanowires with excellent UV sensing and emission characteristics. <i>Materials Research Bulletin</i> , 2016, 77, 147-154.                            | 2.7  | 11        |
| 18 | Effectiveness of lanthanum triflate activated silica nanoparticles as fillers in silane films for corrosion protection of low carbon steel. <i>Progress in Organic Coatings</i> , 2016, 90, 222-234.                 | 1.9  | 32        |

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|----|--|-----|-----------|
| 19 | Seismicity of Peninsular Malaysia due to intraplate and far field sources. Earthquake and Structures, 2016, 10, 1391-1404.   | 1.0 | 3         |
| 20 | Hydrostatic Compression of Graphite Oxide to 49 GPa: A Raman Spectroscopic Study. Materials Research Society Symposia Proceedings, 2015, 1727, 49.   | 0.1 | 0         |
| 21 | Effect of lanthanide activated nano-SiO <sub>2</sub> on the corrosion behavior of silane-based hybrid coatings on low carbon steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1223-1231. | 0.8 | 2         |
| 22 | Data analytic engineering and its application in earthquake engineering: An overview. , 2014, , .  |     | 0         |
| 23 | The structural origin of the unusual compression behaviors in nanostructured TiO <sub>2</sub> : insights from first-principles calculations. Physical Chemistry Chemical Physics, 2014, 16, 18156-18162.     | 1.3 | 3         |
| 24 | First-Principles Calculations of the Pressure Stability and Elasticity of Dense TiO <sub>2</sub> Phases Using the B3LYP Hybrid Functional. Journal of Physical Chemistry C, 2014, 118, 8617-8625.            | 1.5 | 20        |
| 25 | Thermodynamic modeling of the Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system. Journal of Non-Crystalline Solids, 2009, 355, 1679-1686.                               | 1.5 | 35        |
| 26 | Unusual Compression Behavior of Anatase TiO <sub>2</sub> Nanocrystals. Physical Review Letters, 2009, 103, 075505.   | 2.9 | 63        |
| 27 | Size dependence of rutile TiO <sub>2</sub> lattice parameters determined via simultaneous size, strain, and shape modeling. Applied Physics Letters, 2009, 94, .   | 1.5 | 53        |
| 28 | High-Pressure Behavior of Perovskite: FeTiO <sub>3</sub> Dissociation into   |     |           |

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|----|--|------|-----------|
| 37 | Compression Behavior of Zr-doped Nanoanatase. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2006, 61, 1577-1585.  | 0.3  | 7         |
| 38 | Size effects on the structure and phase transition behavior of baddeleyite TiO <sub>2</sub> . Solid State Communications, 2005, 134, 541-546.  | 0.9  | 30        |
| 39 | Finite-size and pressure effects on the Raman spectrum of nanocrystalline anataseTiO <sub>2</sub> . Physical Review B, 2005, 71, .   | 1.1  | 374       |
| 40 | Compression behavior of nanocrystalline anatase TiO <sub>2</sub> . Solid State Communications, 2003, 125, 111-115.   | 0.9  | 66        |
| 41 | A new natural, super-hard, transparent polymorph of carbon from the Popigai impact crater, Russia. Comptes Rendus - Geoscience, 2003, 335, 889-898.  | 0.4  | 43        |
| 42 | First-principles calculations of the phase stability ofTiO <sub>2</sub> . Physical Review B, 2002, 65, .   | 1.1  | 464       |
| 43 | Simulation of low index rutile surfaces with a transferable variable-charge Tiâ€“O interatomic potential and comparison with ab initio results. Surface Science, 2002, 504, 115-124.   | 0.8  | 70        |
| 44 | Compressibility of baddeleyite-type TiO <sub>2</sub> from static compression to 40 GPa. Journal of Alloys and Compounds, 2002, 340, 46-48.   | 2.8  | 15        |
| 45 | Phase Relations in the System Fe <sub>2</sub> O <sub>3</sub> â€“Cr <sub>2</sub> O <sub>3</sub> â€“TiO <sub>2</sub> between 1000 and 1300Â°C and the Stability of (Cr,Fe) <sub>2</sub> Ti <sub>n</sub> âˆ’2O <sub>2n</sub> âˆ’1 Crystallographic Shear Structure Compounds. Journal of Solid State Chemistry, 2001, 161, 45-56. | 1.4  | 15        |
| 46 | Bulk modulus of anatase. Journal of Physics and Chemistry of Solids, 2001, 62, 673-675.  | 1.9  | 43        |
| 47 | Atomistic simulation of the crystal structures and bulk moduli of TiO <sub>2</sub> polymorphs. Journal of Physics and Chemistry of Solids, 2001, 62, 887-895.  | 1.9  | 112       |
| 48 | The hardest known oxide. Nature, 2001, 410, 653-654.   | 13.7 | 316       |
| 49 | Transferable variable-charge interatomic potential for atomistic simulation of titanium oxides. Physical Review B, 2000, 62, 5406-5412.  | 1.1  | 85        |
| 50 | High-temperature powder x-ray diffraction of yttria to melting point. Journal of Materials Research, 1999, 14, 456-459.  | 1.2  | 94        |
| 51 | Thermodynamic properties of Y <sub>2</sub> O <sub>3</sub> phases and the yttriumâ€“oxygen phase diagram. Journal of Alloys and Compounds, 1998, 269, 201-207.  | 2.8  | 73        |
| 52 | Thermodynamic data for the phases in the CaSiO <sub>3</sub> system. Geochimica Et Cosmochimica Acta, 1997, 61, 1181-1191.  | 1.6  | 46        |
| 53 | High-temperature Raman spectroscopy and quasi-harmonic lattice dynamic simulation of diopside. Physics and Chemistry of Minerals, 1997, 24, 440-446.   | 0.3  | 16        |
| 54 | Highâ€“Temperature Raman Spectra and Thermal Expansion of Wollastonite. Journal of the American Ceramic Society, 1997, 80, 2237-2247.  | 1.9  | 37        |

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|----|--|-----|-----------|
| 55 | A thermodynamic assessment of silica phase diagram. Journal of Geophysical Research, 1994, 99, 11787-11794.  | 3.3 | 134       |
| 56 | An assessment of the one-bar liquidus phase relations in the MgO <sub>i</sub> —SiO <sub>2</sub> system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1994, 18, 157-164. | 0.7 | 7         |
| 57 | Legumain Targeting Peptide Conjugated Fluorescent Porous Silicon Nanoparticles for Breast Cancer Imaging. Advances in Science and Technology, 0, , .   | 0.2 | 4         |
| 58 | Graphite Oxide Nanoparticle as a Diesel Fuel Additive for Cleaner Emissions and Lower Fuel Consumption. Energy & Fuels, 0, , .   | 2.5 | 23        |