

Curriculum formativo, didattico, scientifico e professionale del candidato

Dichiarazione sostitutiva di certificazioni

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

Dichiarazione sostitutiva dell'atto di notorietà

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	Decreto Rettorale n 410/2023 dei 13/03/2023 Codice selezione 8A 23
Informazioni aggiornate al	09/11/2023
Nome e Cognome	Vigneselvan Sivasubramaniam

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
Nov 2022 to May 2023	PIE Tech, Anna University, India.	Assistant professor
Nov 2021 to Aug 2022	KIT, Anna University, India.	Assistant professor
Jun 2016 to May 2018	GCT, Anna University, India.	Research Assistant

Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
Aug 2021	Ph.D. in Nano technology	Anna University, India.
Sep 2014	M.Phil. in Cristal Growth	Bharathiar University, India.
May 2014	M.Sc. in Physics	Bharathiar University, India.
June 2012	B.Sc. in Physics	Bharathiar University, India.

Pubblicazioni / Convegni

1. Ramasamy S, Sivasubramaniam V, Gatto G, Kumar A. DC Link Voltage Control based Energy Management Strategy for Standalone Solar PV Fed Hybrid System. In 2023 AEIT International Conference on Electrical and Electronic Technologies for Automotive (AEIT AUTOMOTIVE) 2023 Jul 17 (pp. 1-6). IEEE.
2. Sivasubramaniam V, Ramasamy S, Venkatraman M, Gatto G, Kumar A. Carbon Nanotubes as an Alternative to Copper Wires in Electrical Machines: A Review. Energies. 2023 Apr 24;16(9):3665.
3. Manikandan V, Vigneselvan S, Petrila I, Mane RS, Singh A, Sobczak K, Chandrasekaran J. Long-lasting stability and low-concentration SO ₂ gas detection aptitude of Sn-doped alumina sensors. Materials Chemistry and Physics. 2022 Nov 15;291:126691.
4. Manikandan V, Marnadu R, Chandrasekaran J, Vigneselvan S, Mane RS, Banks CE, Mirzaei A. Inherent characteristics of ultra-photosensitive Al/Cu-CeO ₂ /p-Si metal oxide semiconductor diodes. Journal of Materials Chemistry C. 2022;10(4):1445-57.
5. Manikandan V, Sikarwar S, Yadav BC, Vigneselvan S, Mane RS, Chandrasekaran J. Ultra-sensitive behaviour of ruthenium-doped nickel ferrite thin film humidity sensor. Journal of Experimental Nanoscience. 2021 Dec 15;16(1):43-50.
6. Manikandan V, Mirzaei A, Petrila I, Kavita S, Mane RS, Denardin JC, Lundgaard S, Juodkazis S, Chandrasekaran J, Vigneselvan S. Effect of neodymium stimulation on the dielectric, magnetic and humidity sensing properties of iron oxide nanoparticles. Materials Chemistry and Physics. 2020 Nov 1;254:123572.
7. Manikandan V, Mirzaei A, Sikarwar S, Yadav BC, Vigneselvan S, Vanitha A, Chandrasekaran J. The rapid response and high sensitivity of a ruthenium-doped copper ferrite thin film (Ru-CuFe ₂ O ₄) sensor. RSC advances. 2020;10(23):13611-5.
8. Manikandan V, Petrila I, Kavita S, Mane RS, Denardin JC, Lundgaard S, Juodkazis S, Vigneselvan S, Chandrasekaran J. Effect of Vd-doping on dielectric, magnetic and gas sensing properties of nickel ferrite nanoparticles. Journal of Materials Science: Materials in Electronics. 2020 Oct;31:16728-36.
9. Manikandan V, Petrila I, Vigneselvan S, Mane RS, Vasile B, Dharmavarapu R, Lundgaard S, Juodkazis S, Chandrasekaran J. A reliable chemiresistive sensor of nickel-doped tin oxide (Ni-SnO ₂) for sensing carbon dioxide gas and humidity. RSC advances. 2020;10(7):3796-804.
10. Manikandan V, Petrila I, Vigneselvan S, Mirzaei A, Mane RS, Kim SS, Chandrasekaran J. Enhanced humidity

sensing properties of Fe-doped CeO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> . 2020 Jun;31:8815-24.
11. Vigneselvan S, Manikandan V, Petrila I, Vanitha A, Chandrasekaran J. Effect of copper substitution on structural, optical and humidity-sensing characteristics of cerium oxide nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> . 2020 Jan 1;136:109173.
12. Manikandan V, Singh M, Yadav BC, Mane RS, Vigneselvan S, Mirzaei A, Chandrasekaran J. Room temperature LPG sensing properties of tin substituted copper ferrite (Sn– CuFe ₂ O ₄) thin film. <i>Materials Chemistry and Physics</i> . 2020 Jan 15;240:122265.
13. Vigneselvan S, Manikandan V, Petrila I, Vanitha A, Chandrasekaran J. Effect of tin element on the structural, optical and humidity sensing properties of cerium oxide nanoparticles. <i>Journal of Electronic Materials</i> . 2019 Nov;48:7495-506.
14. Manikandan V, Mirzaei A, Vigneselvan S, Kavita S, Mane RS, Kim SS, Chandrasekaran J. Role of ruthenium in the dielectric, magnetic properties of nickel ferrite (Ru–NiFe ₂ O ₄) nanoparticles and their application in hydrogen sensors. <i>ACS omega</i> . 2019 Jul 31;4(7):12919-26.
15. Manikandan V, Sikarwar S, Yadav BC, Vigneselvan S, Mane RS, Chandrasekaran J, Mirzaei A. Rapid humidity sensing activities of lithium-substituted copper-ferrite (Li– CuFe ₂ O ₄) thin films. <i>Materials Chemistry and Physics</i> . 2019 May 1;229:448-52.
16. Manikandan V, Kuncser V, Vasile B, Kavita S, Vigneselvan S, Mane RS. Enhancement in magnetic and dielectric properties of the ruthenium-doped copper ferrite (Ru-CuFe ₂ O ₄) nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> . 2019 Apr 15;476:18-23.
17. Manikandan V, Tudorache F, Petrila I, Mane RS, Kuncser V, Vasile B, Morgan D, Vigneselvan S, Mirzaei A. Fabrication and characterization of Ru-doped LiCuFe ₂ O ₄ nanoparticles and their capacitive and resistive humidity sensor applications. <i>Journal of Magnetism and Magnetic Materials</i> . 2019 Mar 15;474:563-9.
18. Manikandan V, Kim JH, Mirzaei A, Kim SS, Vigneselvan S, Singh M, Chandrasekaran J. Effect of temperature on gas sensing properties of lithium (Li) substituted (NiFe ₂ O ₄) nickel ferrite thin film. <i>Journal of Molecular Structure</i> . 2019 Feb 5;1177:485-90.
19. Manikandan V, Petrila I, Vigneselvan S, Dharmavarapu R, Juodkazis S, Kavita S, Chandrasekaran J. Efficient humidity-sensitive electrical response of annealed lithium substituted nickel ferrite (Li–NiFe ₂ O ₄) nanoparticles under ideal, real and corrosive environments. <i>Journal of Materials Science: Materials in Electronics</i> . 2018 Nov;29:18660-7.
20. Manikandan V, Singh M, Yadav BC, Vigneselvan S. Room-temperature gas sensing properties of nanocrystalline-structured indium-substituted copper ferrite thin film. <i>Journal of Electronic Materials</i> . 2018 Nov;47:6366-72.
21. Manikandan V, Denardin JC, Vigneselvan S, Mane RS. Structural, dielectric and enhanced soft magnetic properties of lithium (Li) substituted nickel ferrite (NiFe ₂ O ₄) nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> . 2018 Nov 1;465:634-9.

Luogo e data

Cagliari, 09/11/2023,