

# Y K Vijay

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

416  
citations

933447

10  
h-index

794594

19  
g-index

55  
all docs

55  
docs citations

55  
times ranked

565  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Optical, mechanical and thermal properties of PMMA/graphite nanocomposite thin films. <i>Materials Research Express</i> , 2019, 6, 075315.   | 1.6 | 7         |
| 2  | Synthesis of Graphene Oxide/Polyaniline Composites for Hydrogen Storage. <i>Advanced Science, Engineering and Medicine</i> , 2017, 9, 391-397.   | 0.3 | 8         |
| 3  | Fast mass and charge transport through electrically aligned CNT/polymer nanocomposite membranes. <i>International Journal of Energy Research</i> , 2016, 40, 770-775.  | 4.5 | 9         |
| 4  | Impact of Magnetically Aligned CNT/PC Nanocomposites for Hydrogen Gas Separation Applications. <i>MRS Advances</i> , 2016, 1, 2873-2880.   | 0.9 | 0         |
| 5  | Enhancement in biological response of Ag-nano composite polymer membranes using plasma treatment for fabrication of efficient bio materials. <i>AIP Conference Proceedings</i> , 2016, , .                         | 0.4 | 1         |
| 6  | Fabrication of highly efficient resonant structure assisted ultrathin artificially stacked Ag/ZnS/Ag multilayer films for color filter applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6745-6754. | 5.5 | 11        |
| 7  | Surface Modification of Polymer Nanocomposites by Glow-Discharge Plasma Treatment. <i>Materials Science</i> , 2015, 51, 68-75.   | 0.9 | 8         |
| 8  | Optical and morphological properties of graphene sheets decorated with ZnO nanowires via polyol enhancement. , 2014, , .   |     | 4         |
| 9  | Temperature dependence of gas sensing behaviour of TiO <sub>2</sub> doped PANI composite thin films. <i>AIP Conference Proceedings</i> , 2014, , .   | 0.4 | 1         |
| 10 | Fabrication of metal dielectric metal multilayer thin film: Color filter. , 2014, , .  |     | 0         |
| 11 | Photovoltaic response of RGO doped MEH-PPV:PCBM blend devices. , 2014, , .   |     | 0         |
| 12 | Enhanced H <sub>2</sub> sensing by substituting polyaniline nanoparticles with nanofibers. , 2014, , .   |     | 0         |
| 13 | Synthesis and Characterization of Colloidal TiO <sub>2</sub> Nanoparticles: Through Titanium Chloride Rich Solutions. <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 595-602.                        | 0.3 | 4         |
| 14 | Plasma Etching Technology for Surface and Chemical Modifications of Aluminium and Poly Methyl Meth Acrylate (PMMA) Nanocomposites. <i>Advanced Science, Engineering and Medicine</i> , 2014, 6, 698-703.           | 0.3 | 5         |
| 15 | Enhancement of Sterilization Efficiency of Polymer Nanocomposite by Argon Plasma Irradiation. <i>Journal of Bionanoscience</i> , 2014, 8, 108-115.   | 0.4 | 5         |
| 16 | Preparation and characterization of the heterojunction of CuInSe <sub>2</sub> •CdS thin films prepared by stacked elemental layer technique. , 2013, , .   |     | 0         |
| 17 | Analysis of the electronic structure of ZrO <sub>2</sub> by Compton spectroscopy. <i>Journal of Experimental and Theoretical Physics</i> , 2013, 117, 139-143.   | 0.9 | 1         |
| 18 | Effect of sensitizers on H <sub>2</sub> S sensing properties of ZnO nanowires. , 2013, , .   |     | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A novel high transmittance red color filter: ZnS and Ag multilayer. , 2013, , .   |     | 0         |
| 20 | Ag <sup>+12</sup> ion induced modifications of structural and optical properties of ZnO-PMMA nanocomposite films. , 2013, , .   |     | 1         |
| 21 | Low band gap conjugated small molecules containing benzobisthiadiazole and thienothiadiazole central units: synthesis and application for bulk heterojunction solar cells. Journal of Materials Chemistry, 2011, 21, 4679.                  | 6.7 | 60        |
| 22 | Effect of Electric Field Alignment of MWCNT in PMMA Matrix for Hydrogen Gas Purification. , 2011, , .   |     | 1         |
| 23 | Preparation and Characterization of Transparent ZnO <sup>2+</sup> Polymethyl methacrylate Nanocomposites. , 2011, , .   |     | 1         |
| 24 | EFFECT OF ANNEALING AND SnO <sub>2</sub> ADDITION ON PROPERTIES OF NANOSTRUCTURED ZnO THIN FILMS. International Journal of Nanoscience, 2011, 10, 1007-1011.  | 0.7 | 0         |
| 25 | Structural and Optical Properties of RF-Sputtered ZnS Thin Films. AIP Conference Proceedings, 2011, , .   | 0.4 | 2         |
| 26 | The Effect of Pressure on the Dimensions of Carbon Nanotubes Obtained by the Chemical Vapour Deposition. Advanced Science Letters, 2011, 4, 586-590.  | 0.2 | 3         |
| 27 | Optical properties of d.c. magneto sputtered tantalum and titanium nanostructure thin film metal hydrides. Bulletin of Materials Science, 2010, 33, 569-573.  | 1.7 | 4         |
| 28 | Microstructure change in poly(ethersulfone) films by swift heavy ions. Micron, 2010, 41, 390-394.   | 2.2 | 22        |
| 29 | Structural and Chemical Modification in a Polymer by Metal Ion Implantation. Composite Interfaces, 2010, 17, 229-238.   | 2.3 | 3         |
| 30 | OPTICAL AND DYNAMIC MECHANICAL CHARACTERIZATION OF THIN FILM POLYMER NANOCOMPOSITES. International Journal of Modern Physics B, 2010, 24, 57-63.  | 2.0 | 1         |
| 31 | TiO <sub>2</sub> -PANI And MWNT-PANI Composites Thin Films For Hydrogen Gas Sensing. , 2010, , .  |     | 1         |
| 32 | Synthesis of a Low-Band-Gap Small Molecule Based on Acenaphthoquinoxaline for Efficient Bulk Heterojunction Solar Cells. Langmuir, 2010, 26, 12909-12916.   | 3.5 | 23        |
| 33 | Novel Low Band Gap Small Molecule and Phenylenevinylene Copolymer with Cyanovinylene 4-Nitrophenyl Segments: Synthesis and Application for Efficient Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2010, 2, 270-278. | 8.0 | 51        |
| 34 | Swift heavy ion irradiation effect on Cu-doped CdS nanocrystals embedded in PMMA. Bulletin of Materials Science, 2009, 32, 569-573.   | 1.7 | 6         |
| 35 | SHI induced nano track polymer filters and characterization. Indian Journal of Physics, 2009, 83, 927-935.  | 1.8 | 1         |
| 36 | Study of structure and optical luminescence of C+6 (80 MeV) ion irradiated CdS: Fe system. Indian Journal of Physics, 2009, 83, 1659-1665.  | 1.8 | 0         |

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|----|--|-----|-----------|
| 37 | Positron source Ge-68 through copper and bronze irradiated by carbon ions. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2384-2386.             | 0.8 | 0         |
| 38 | Physically and chemically modified polycarbonate by metal ion implantation. Advances in Polymer Technology, 2008, 27, 143-151.   | 1.7 | 13        |
| 39 | MODIFICATION IN MICROSTRUCTURE AND PROPERTIES OF POLYMERS BY 10 keV ELECTRON BEAM. International Journal of Nanoscience, 2007, 06, 167-171.                                | 0.7 | 0         |
| 40 | Morphological changes of electron-beam irradiated PMMA surface. , 2007, , .  |     | 3         |
| 41 | Characterization of asymmetric polymeric membranes by gas permeation. Micron, 2007, 38, 326-329.   | 2.2 | 9         |
| 42 | Characterization of Nanocomposite Polymeric Membrane. Journal of Polymer Research, 2007, 13, 357-360.  | 2.4 | 25        |
| 43 | Study of annealing effects in Al-Sb bilayer thin films. Bulletin of Materials Science, 2007, 30, 5-7.  | 1.7 | 5         |
| 44 | Study of annealing effects in In-Sb bilayer thin films. Bulletin of Materials Science, 2007, 30, 117-121.  | 1.7 | 10        |
| 45 | The kinetics of Cr layer coated on TiNi films for hydrogen absorption. Pramana - Journal of Physics, 2007, 68, 75-81.  | 1.8 | 1         |
| 46 | A variable electron beam and its irradiation effect on optical and electrical properties of CdS thin films. Pramana - Journal of Physics, 2007, 69, 631-638.               | 1.8 | 6         |
| 47 | Dielectric parameters and a.c. conductivity of pure and doped poly (methyl methacrylate) films at microwave frequencies. Bulletin of Materials Science, 2006, 29, 397-401. | 1.7 | 26        |
| 48 | Dielectric measurements on PWB materials at microwave frequencies. Bulletin of Materials Science, 2006, 29, 181-185.   | 1.7 | 11        |
| 49 | Transport through track etched polymeric blend membrane. Bulletin of Materials Science, 2006, 29, 261-264.   | 1.7 | 20        |
| 50 | Optical, electrical and thermoelectric power studies of Al-Sb thin film bilayer structure. Bulletin of Materials Science, 2006, 29, 17-20.                                 | 1.7 | 10        |
| 51 | Swift heavy ion irradiated polymeric membranes for gas permeation. Journal of Applied Polymer Science, 2006, 102, 2386-2390.   | 2.6 | 11        |
| 52 | Effect of temperature and $\hat{I}$ -irradiation on gas permeability for polymeric membrane. Bulletin of Materials Science, 2005, 28, 643-646.                             | 1.7 | 14        |
| 53 | Irradiation of large area Mylar membrane and characterization of nuclear track filter. Bulletin of Materials Science, 2004, 27, 417-420.                                   | 1.7 | 4         |
| 54 | Mechanical oscillations in a circular loop. American Journal of Physics, 1996, 64, 1077-1078.  | 0.7 | 2         |