

# Y K Vijay

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11381765/publications.pdf>

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	Low band gap conjugated small molecules containing benzobisthiadiazole and thienothiadiazole central units: synthesis and application for bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 4679.	6.7	60
2	Novel Low Band Gap Small Molecule and Phenylenevinylene Copolymer with Cyanovinylene 4-Nitrophenyl Segments: Synthesis and Application for Efficient Bulk Heterojunction Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 270-278.	8.0	51
3	Dielectric parameters and a.c. conductivity of pure and doped poly (methyl methacrylate) films at microwave frequencies. <i>Bulletin of Materials Science</i> , 2006, 29, 397-401.	1.7	26
4	Characterization of Nanocomposite Polymeric Membrane. <i>Journal of Polymer Research</i> , 2007, 13, 357-360.	2.4	25
5	Synthesis of a Low-Band-Gap Small Molecule Based on Acenaphthoquinoxaline for Efficient Bulk Heterojunction Solar Cells. <i>Langmuir</i> , 2010, 26, 12909-12916.	3.5	23
6	Microstructure change in poly(ethersulfone) films by swift heavy ions. <i>Micron</i> , 2010, 41, 390-394.	2.2	22
7	Transport through track etched polymeric blend membrane. <i>Bulletin of Materials Science</i> , 2006, 29, 261-264.	1.7	20
8	Effect of temperature and $\hat{\Gamma}$ -irradiation on gas permeability for polymeric membrane. <i>Bulletin of Materials Science</i> , 2005, 28, 643-646.	1.7	14
9	Physically and chemically modified polycarbonate by metal ion implantation. <i>Advances in Polymer Technology</i> , 2008, 27, 143-151.	1.7	13
10	Dielectric measurements on PWB materials at microwave frequencies. <i>Bulletin of Materials Science</i> , 2006, 29, 181-185.	1.7	11
11	Swift heavy ion irradiated polymeric membranes for gas permeation. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2386-2390.	2.6	11
12	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
13	Optical, electrical and thermoelectric power studies of Al-Sb thin film bilayer structure. <i>Bulletin of Materials Science</i> , 2006, 29, 17-20.	1.7	10
14	Study of annealing effects in In-Sb bilayer thin films. <i>Bulletin of Materials Science</i> , 2007, 30, 117-121.	1.7	10
15	Characterization of asymmetric polymeric membranes by gas permeation. <i>Micron</i> , 2007, 38, 326-329.	2.2	9
16	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
17	Surface Modification of Polymer Nanocomposites by Glow-Discharge Plasma Treatment. <i>Materials Science</i> , 2015, 51, 68-75.	0.9	8
18	Synthesis of Graphene Oxide/Polyaniline Composites for Hydrogen Storage. <i>Advanced Science, Engineering and Medicine</i> , 2017, 9, 391-397.	0.3	8

#	ARTICLE	IF	CITATIONS
19	Optical, mechanical and thermal properties of PMMA/graphite nanocomposite thin films. Materials Research Express, 2019, 6, 075315.	1.6	7
20	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
21	Swift heavy ion irradiation effect on Cu-doped CdS nanocrystals embedded in PMMA. Bulletin of Materials Science, 2009, 32, 569-573.	1.7	6
22	Study of annealing effects in Al-Sb bilayer thin films. Bulletin of Materials Science, 2007, 30, 5-7.	1.7	5
23	Plasma Etching Technology for Surface and Chemical Modifications of Aluminium and Poly Methyl Meth Acrylate (PMMA) Nanocomposites. Advanced Science, Engineering and Medicine, 2014, 6, 698-703.	0.3	5
24	Enhancement of Sterilization Efficiency of Polymer Nanocomposite by Argon Plasma Irradiation. Journal of Bionanoscience, 2014, 8, 108-115.	0.4	5
25	Irradiation of large area Mylar membrane and characterization of nuclear track filter. Bulletin of Materials Science, 2004, 27, 417-420.	1.7	4
26	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
27	Optical and morphological properties of graphene sheets decorated with ZnO nanowires via polyol enhancement. , 2014, , .		4
28	Synthesis and Characterization of Colloidal TiO <sub>2</sub> Nanoparticles: Through Titanium Chloride Rich Solutions. Advanced Science, Engineering and Medicine, 2014, 6, 595-602.	0.3	4
29	Morphological changes of electron-beam irradiated PMMA surface. , 2007, , .		3
30	Structural and Chemical Modification in a Polymer by Metal Ion Implantation. Composite Interfaces, 2010, 17, 229-238.	2.3	3
31	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
32	Mechanical oscillations in a circular loop. American Journal of Physics, 1996, 64, 1077-1078.	0.7	2
33	Structural and Optical Properties of RF Sputtered ZnS Thin Films. AIP Conference Proceedings, 2011, , .	0.4	2
34	The kinetics of Cr layer coated on TiNi films for hydrogen absorption. Pramana - Journal of Physics, 2007, 68, 75-81.	1.8	1
35	SHI induced nano track polymer filters and characterization. Indian Journal of Physics, 2009, 83, 927-935.	1.8	1
36	OPTICAL AND DYNAMIC MECHANICAL CHARACTERIZATION OF THIN FILM POLYMER NANOCOMPOSITES. International Journal of Modern Physics B, 2010, 24, 57-63.	2.0	1

#	ARTICLE	IF	CITATIONS
37	TiO <sub>2</sub> -PANI And MWNT-PANI Composites Thin Films For Hydrogen Gas Sensing. , 2010, , .		1
38	Effect of Electric Field Alignment of MWCNT in PMMA Matrix for Hydrogen Gas Purification. , 2011, , .		1
39	Preparation and Characterization of Transparent ZnO-Polymethyl methacrylate Nanocomposites. , 2011, , .		1
40	Analysis of the electronic structure of ZrO <sub>2</sub> by Compton spectroscopy. Journal of Experimental and Theoretical Physics, 2013, 117, 139-143.	0.9	1
41	Effect of sensitizers on H <sub>2</sub> S sensing properties of ZnO nanowires. , 2013, , .		1
42	Ag <sup>+12</sup> ion induced modifications of structural and optical properties of ZnO-PMMA nanocomposite films. , 2013, , .		1
43	Temperature dependence of gas sensing behaviour of TiO <sub>2</sub> doped PANI composite thin films. AIP Conference Proceedings, 2014, , .	0.4	1
44	Enhancement in biological response of Ag-nano composite polymer membranes using plasma treatment for fabrication of efficient bio materials. AIP Conference Proceedings, 2016, , .	0.4	1
45	MODIFICATION IN MICROSTRUCTURE AND PROPERTIES OF POLYMERS BY 10 keV ELECTRON BEAM. International Journal of Nanoscience, 2007, 06, 167-171.	0.7	0
46	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
47	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
48	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
49	Preparation and characterization of the heterojunction of CuInSe <sub>2</sub> -CdS thin films prepared by stacked elemental layer technique. , 2013, , .		0
50	A novel high transmittance red color filter: ZnS and Ag multilayer. , 2013, , .		0
51	Fabrication of metal dielectric metal multilayer thin film: Color filter. , 2014, , .		0
52	Photovoltaic response of RGO doped MEH-PPV:PCBM blend devices. , 2014, , .		0
53	Enhanced H <sub>2</sub> sensing by substituting polyaniline nanoparticles with nanofibers. , 2014, , .		0
54	Impact of Magnetically Aligned CNT/PC Nanocomposites for Hydrogen Gas Separation Applications. MRS Advances, 2016, 1, 2873-2880.	0.9	0