

# Kalimuthu Vijayarangamuthu

## List of Publications by Year in descending order

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27  
papers

521  
citations

840728

11  
h-index

642715

23  
g-index

27  
all docs

27  
docs citations

27  
times ranked

864  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticle size, oxidation state, and sensing response of tin oxide nanopowders using Raman spectroscopy. <i>Journal of Alloys and Compounds</i> , 2014, 610, 706-712.	5.5	79
2	Degussa P25 TiO <sub>2</sub> modified with H <sub>2</sub> O <sub>2</sub> under microwave treatment to enhance photocatalytic properties. <i>Catalysis Today</i> , 2018, 303, 305-312.	4.4	74
3	A type-II MoS <sub>2</sub> /ZnO heterostructure with enhanced photocatalytic activity. <i>Materials Letters</i> , 2019, 243, 183-186.	2.6	53
4	Prototype electrochromic device and dye sensitized solar cell using spray deposited undoped and $\text{Li}^{\text{TM}}$ doped V <sub>2</sub> O <sub>5</sub> thin film electrodes. <i>Current Applied Physics</i> , 2015, 15, 622-631.	2.4	45
5	Temporospatial Control of Graphene Wettability. <i>Advanced Materials</i> , 2016, 28, 661-667.	21.0	39
6	A Raman spectroscopic study of structural evolution of electrochemically deposited ZnO films with deposition time. <i>Materials Chemistry and Physics</i> , 2011, 126, 568-572.	4.0	35
7	$\text{Li}^{\text{TM}}$ doping induced physicochemical property modifications of MoO <sub>3</sub> thin films. <i>Applied Surface Science</i> , 2013, 284, 624-633.	6.1	30
8	Synthesis and photoluminescence properties of Sm <sup>3+</sup> doped LiGd(WO <sub>4</sub> ) <sub>2</sub> phosphors with high color purity. <i>Optical Materials</i> , 2020, 102, 109804.	3.6	25
9	Ge nanocrystals embedded in a GeO <sub>x</sub> matrix formed by thermally annealing of Ge oxide films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 731-733.	2.1	14
10	Low Frequency Ultrasonication of Degussa P25 TiO <sub>2</sub> and Its Superior Photocatalytic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 4399-4404.	0.9	14
11	Modification of the structural and optical properties of tin oxide nanoparticles by Co doping and thermal annealing. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 1181-1188.	2.3	12
12	One-step synthesis of Au-coated porous silicon as a surface enhanced Raman scattering substrate for biomolecule detection. <i>Materials Letters</i> , 2017, 204, 115-119.	2.6	11
13	200 MeV Ag <sup>15+</sup> ion beam irradiation induced modifications in spray deposited MoO <sub>3</sub> thin films by fluence variation. <i>Nuclear Engineering and Technology</i> , 2019, 51, 1983-1990.	2.3	11
14	Facile synthesis of core-shell-structured rutile TiO <sub>2</sub> with enhanced photocatalytic properties. <i>Catalysis Today</i> , 2020, 347, 18-22.	4.4	11
15	Tailoring the properties of spray deposited V <sub>2</sub> O <sub>5</sub> thin films using swift heavy ion beam irradiation. <i>Nuclear Engineering and Technology</i> , 2020, 52, 2585-2593.	2.3	11
16	Nanostructured Tin Oxide as a Surface-Enhanced Raman Scattering Substrate for the Detection of Nitroaromatic Compounds. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 790-794.	2.1	10
17	Effect of 200 MeV Ag <sup>15+</sup> ion beam irradiation at different fluences on WO <sub>3</sub> thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 439, 51-58.	1.4	10
18	200 MeV Ag <sup>15+</sup> swift heavy ion beam induced property modifications in Nb <sub>2</sub> O <sub>5</sub> thin films by fluence variation. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 135, 109089.	4.0	8

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19	Enhancement of photocatalytic disinfection of surface modified rutile TiO <sub>2</sub> nanocatalyst. Korean Journal of Chemical Engineering, 2016, 33, 2392-2395.	2.7	7
20	Growth mechanism and optical properties of Ge nanocrystals embedded in a GeO <sub>x</sub> matrix. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	7
21	A spectroscopic ellispometric study of the tunability of the optical constants and thickness of GeO <sub>x</sub> films with swift heavy ions. Journal of Applied Physics, 2011, 110, .	2.5	5
22	Effective Removal of Heavy Metals from Wastewater Using Modified Clay. Journal of Nanoscience and Nanotechnology, 2016, 16, 4469-4473.	0.9	4
23	UV photoluminescence from nanocrystalline tin oxide synthesized by a one-step hydrothermal method. Materials Letters, 2015, 157, 11-14.	2.6	3
24	100 MeV O <sup>7+</sup> irradiation induced red shift in the band gaps of 3 wt% 'Li' doped Nb <sub>2</sub> O <sub>5</sub> thin film. , 2014, , .		1
25	Graphene: Temporospacial Control of Graphene Wettability (Adv. Mater. 4/2016). Advanced Materials, 2016, 28, 594-594.	21.0	1
26	Morphology Control of Zinc Oxide Nanostructure on Single Layer Graphene. Journal of Nanoscience and Nanotechnology, 2016, 16, 4417-4421.	0.9	1
27	Refractive Index of Ge Nanocrystals Embedded in a GeO <sub>[sub x]</sub> Matrix. , 2011, , .		0