



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



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**CENTRE FOR NANOTECHNOLOGY RESEARCH  
DEPARTMENT OF HUMANITIES AND SCIENCE  
INDEXED RESEARCH PUBLICATIONS JAN 2019 – JAN 2022**

S. No.	Department	Title of the Paper	Name of The Journal	Author Details	Year /Volume / Page No.	Impact Factor
01	H & S, AVIT	Synthesis, microstructure and visible luminescence properties of vertically aligned lightly doped porous silicon nanowalls	Microporous and Mesoporous Materials	A.K.Behera, R.N.Viswanath C.LakshmananK. K.Madapu M.Kamruddin T.Mathews	2019/ 273/99	5.455
02	H & S, AVIT	Vacancy defects and their influence on mechanical properties in as-dealloyed and Fe+ ion irradiated nanoporous Au	Europhysics Letters, A letters journal exploring the frontiers of physics	C. Lakshmanan, R. N. Viswanath Padmalochan Panda B. Sundaravell, R. Rajaraman and G. Amarendra	2019/ 128/36002	2.61
03	H & S, AVIT	Microstructure Influenced Visible Luminescence Properties in Pure and Lithium Doped Porous Silicon	Journal of Adv Research in Dynamical & Control Systems,	A.K. Behera, G. Nirmala Devi, T. Mathews M. Kamruddin R.N. Viswanath	2019/11, 11 Special Issue,	0.308
04	H & S, AVIT	SPR aided SCPCF beam modifiers for efficient coupling to rectangular planar wave guides'	Journal of Current Engineering and Technology	G. Latha, Prita Nair, K.S Resmi	2019/9/ pp-1 - 5	1.9
05	H & S, AVIT	Mineral and magnetic parameters as proxies for natural radioactivity level inVaigai river sediment: Horizontal and vertical approach	Applied Radiation and Isotopes	K. Paramasivam, V. Ramasamy, G. Suresh	2019/ 149/ 130	1.343
06	H & S, AVIT	Oxygen non-stoichiometry in Tio2 and ZnO nano rods: Effect on the Photovoltaic properties of dye and Sb2S3 Sensitization solar Cells	Solar Energy	Vikas Sharma, Tapan Kumar Das, P.Illaiyaraja, C.Sudakar	2019/ 191/400	4.674
07	H & S, AVIT	Adsorption of U(VI) and Th(IV) from simulated nuclear waste using PAMAM and DGA funtionalized PAMAM dendron grafted styrene divinylbenzene chelating resins	Chemical Papers	N. Priyadarshini, P.Illaiyaraja	.2019/ 73,/2879	1.246
08	H & S, AVIT	Synthesis of silicon nanowalls exhibiting excellent anti reflectivity and near super-hydrophobicity	Nano-Structures & Nano-Objects	A.K. Behera, R. N Viswanath, C Lakshmanan, Tom Mathews, M Kamruddin	2020/21, 100424 (1-7)	5.454
09	H & S, AVIT	Electrochemical studies on wafer-scale synthesized silicon nanowalls for Super-capacitor applications	Bulletin of Materials Science	A.K. Behera, C. Lakshmanan, . R.N.Viswanath, C. Poddar, Tom Mathews.	2020/43 pp.291 (1-8)	1.392
10	H & S, AVIT	Studies On Insulation Oil Contaminants In Electrical Power Transformers	International Journal of Scientific & Technology Research	G. Latha	2020/9 pp. 4236-4240	0.4
11	H & S, AVIT	Hydroxyapatite for bone related applications derived from sea shell waste by simpleprecipitation method	Journal of Asian Ceramic Societies	C. Suresh Kumar , K. Dhanaraj , R.M. Vimalathithan , P. Ilaiyaraja, G. Suresh	2020/8/416	2.60



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12	H & S, AVIT	A comparative analysis of microwave assisted natural (Murex virgineus shell) and chemical nanohydroxyapatite: structural, morphological and biological studies	Journal of the Australian Ceramic Society	K. Dhanaraj C. Suresh Kumar, S. H. Socrates, J. Vinoth Arulraj, G. Suresh	2020 DOI: <a href="https://doi.org/10.1007/s41779-020-00522-9">10.1007/s41779-020-00522-9</a>	1.307
13	H & S, AVIT	Degradation of Orange G and Malachite green dyes under visible light irradiation: Double layered core-shell nanoparticle as an efficient photocatalys	Indian Journal of Chemistry A	Suganya Josephine GA, Sivasamy A	2020/59A/1259	0.4
14	H & S, AVIT	Health Benefits and Natural Manifestation of Aflatoxin in Peanuts	International Journal of Biology, Pharmacy and Allied Sciences	Nirmala A, Prabasheela B, Nagalakshmi R	2020/9/1621	0.812
15	H & S, AVIT	Spectroscopical characterization and effect of temperature on marine shell from Vellar estuary, Tamilnadu, India	Journal of Advanced Scientific Research	P. Sutharsan, R.M. Vimalathithan, K. Dhanaraj G. Suresh	2020/11/235	0.567
16	H & S, AVIT	Hydrogen Sensing behaviou of Platinum and Palladium functionalized silicon nanowalls	Applied Physics A: Materials Science and Processing	Anil K. Behera, R N Viswanath, T. M. David, A. K. Prasad. P.K. Ajikumar, Tom Mathews	2021/127/40	2.584
17	H & S, AVIT	Structural, Morphological and Anti-bacterial Analysis of Nanohydroxyapatite Derived from Biogenic (SHELL) and Chemical Source: Formation of Apatite	Iranian Journal of Material Science and Engineering	C. S. Kumar, K. Dhanaraj, R.M. Vimalathithan, P. Ilaiyaraja, G. Suresh	2021/18/91	0.59
18	H & S, AVIT	Preparation, Characterization and Visible Light Photocatalytic activity of Rare Earth doped Zinc Oxide Nanoparticles	IJSRST International Journal of Scientific Research in Science and Technology	M. Prathap Kumar, G. A. Suganya Josephine and A. Sivasamy	2021/8/36	1.8
19	H & S, AVIT	Photo catalytically Active ZnO flaky nanoflowers for environmental remediation under Solar light irradiation: Effect of morphology on Photocatalytic activity	Bulletin of Material Science	G.A. Suganya Josephine, K. Jayaprakash, G. Meenakshi, A. Sivasamy, G. Nirmala Devi and R.N. Viswanath	2021/44/247 (1-8)	1.392
20	H & S, AVIT	Facile synthesis of N doped ZnO Coral bundles for enhanced photocatalytic and antimicrobial activity	International Journal of Ceramic Engineering & Science	G. A. Suganya Josephine and A. Sivasamy	2021/3/180	2
21	H & S, AVIT	Photocatalytic Degradation of 2-4 Dichlorophenoxy Acetic acid undervisible light irradiation	International Journal of Advanced and Innovative research,	G. A. Suganya Josephine, K. Jayaprakash, A. Sivasamy	2021/8/131	3.2
22	H & S, AVIT	Synthesis And Characterization Of Hydroxyapatite From Chicken Eggshells – A Novel Bioceramics	AIP Conference Proceedings	M.Kalpana, R.Nagalakshmi	2021/accepted	0.402
23	H & S, AVIT	Eggshell derived Calcium Oxide - Synthesis and Characterization	AIP Conference Proceedings	R.Nagalakshmi, M.Kalpana, B.Prabasheela	2021/accepted	0.402



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24	H & S, AVIT	Enhancement of antimicrobial efficacy of copper IUD by doping silver nanoparticles through green synthesis	AIP Conference Proceedings	B.Prabasheela, V Sridhya, M Kavishree and R Nagalakshmi	2021/accepted	0.402
25	H & S, AVIT	Investigation of corrosion and surface morphological behaviour of hydroxyapatite coated surgical stainless steel using electrodeposition process	AIP Conference Proceedings	K.Surendra Babu, R.Nagalakshmi	2021/accepted	0.402
26	H & S, AVIT	Effect of nanowall bunching on surface reflectance and wetting behaviour of Silicon nanowall architectures	Nano-Structures & Nano-Objects	Anil K Behera, R. N. Viswanath, Neha Sharma, Ajikumar P K, Tripura Sundari S, Tom Mathews	2022/ 29/ 100833 (1-12)	5.454

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