



# S.A. ENGINEERING COLLEGE

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## DEPARTMENT OF MECHANICAL ENGINEERING DETAILS OF PUBLICATIONS OF FACULTY 2023-2024

S.NO	NAME OF THE FACULTY	Title of the paper	Name of the Journal/Conference with vol no, issue no, page no and impact factor.	Date of publication/ presentation	DOI and Annexure details(refer Annexure details of Anna University, Chennai)
1.	Dr. P. Sevel, Mr.J.Vasanthe Roy and <b>Mr.A.Sivaramakrishnan</b>	Analysis of sensitivity and formulation of empirical relationship between parameters of FSW process and tensile strength of AZ80A Mg alloy joints	Materials Research Express, Vol 10, Issue 5	06.06.2023	SCI Annexure 1: 7828 DOI 10.1088/2053-1591/acd98f
2.	<b>Mr.J.Vasanthe Roy</b> , Dr. P. Sevel	An investigation on the influence of torque and R-ratio on the fatigue life of double-lap bolted joint using FEM	Materials Today Proceedings	29.05.2023	Scopus Conference <a href="https://doi.org/10.1016/j.matpr.2023.05.342">https://doi.org/10.1016/j.matpr.2023.05.342</a>
3.	Mr.Prabaharan G	Mechanical behaviour of Al6061 hybrid nanocomposites reinforced with nano alumina and molybdenum disulfide	Materials Today Proceedings	03 July 2023	Scopus Conference <a href="https://doi.org/10.1016/j.matpr.2023.06.279">https://doi.org/10.1016/j.matpr.2023.06.279</a>
4.	Dr. P. Sevel	Impact of tool rotational speed on the microstructural transitions and tensile properties of the dissimilar AZ80A-Mg – AA6061-Al joints fabricated by friction stir welding	Practical Metallography	21 April 2023	SCI <a href="https://doi.org/10.1515/pm-2022-1029">https://doi.org/10.1515/pm-2022-1029</a>



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5.	Mr.Parthasarathy K	Evaluation of the mechanical strength of mortars with almond shell ash	Materials Today Proceedings	23 August 2023	Scopus Conference <a href="https://doi.org/10.1016/j.matpr.2023.08.097">https://doi.org/10.1016/j.matpr.2023.08.097</a>
6.	<b>Mr. Srinivasan D</b> Dr. Vishvanathperumal S	Effect of Modified Nanographene Oxide Loading on the Swelling and Compression Set Behavior of EPDM/SBR Nano-composites	Journal of Inorganic and Organometallic Polymers and Materials	04 September 2023	SCI <a href="https://doi.org/10.1007/s10904-023-02803-9">https://doi.org/10.1007/s10904-023-02803-9</a>
7.	Dr. Vishvanathperumal S	Effect of Modified Nanographene Oxide on the Mechanical and Swelling Properties of Silicone Rubber Nanocomposites	Polym. Korea, Vol. 47, No. 3, pp. 288-302 (2023)	13 February 2023	SCI <a href="https://doi.org/10.7317/pk.2023.47.3.288">https://doi.org/10.7317/pk.2023.47.3.288</a>
8.	Dr. Vishvanathperumal S	Effect of Modified Nanographene Oxide (mGO)/Carbon Nanotubes (CNTs) Hybrid Filler on the Cure, Mechanical and Swelling Properties of Silicone Rubber Composites	Journal of Inorganic and Organometallic Polymers and Materials	31 July 2023	SCI <a href="https://doi.org/10.1007/s10904-023-02818-2">https://doi.org/10.1007/s10904-023-02818-2</a>
9.	Dr. Vishvanathperumal S	Effect of Nanographene Oxide on the Mechanical Properties of EPDM/SBR Nano-composites	Polym. Korea, Vol. 47, No. 4, pp. 427-439 (2023)	25 May 2023	SCI <a href="https://doi.org/10.7317/pk.2023.47.4.427">https://doi.org/10.7317/pk.2023.47.4.427</a>
10.	Dr. Vishvanathperumal S	Influence of halloysite nanotubes on mechanical and swelling properties of silicone rubber compound	Journal of Polymer Research (2023) 30:310	18 July 2023	SCI <a href="https://doi.org/10.1007/s10965-023-03632-7">https://doi.org/10.1007/s10965-023-03632-7</a>
11.	<b>Mr. Dhanasekar S</b> , Dr. Vishvanathperumal S	Effects of Nanosilica on the Mechanical Properties and Swelling Resistance of EPDM/NBR Nanocomposites	Polym. Korea, Vol. 47, No. 5, pp. 1-16 (2023)	---	SCI <a href="https://doi.org/10.7317/pk.2023.47.5.1">https://doi.org/10.7317/pk.2023.47.5.1</a>



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12.	Mr. Dhanasekar S, Dr. Vishvanathperumal S	Cure characteristics, compression set, swelling behaviors, abrasion resistance and mechanical properties of nanoclay (Cloisite 15A, Cloisite 20A and Cloisite 30B) filler filled EPDM/NBR blend system	Journal of Polymer Research (2023) 30:375	11 September 2023	SCI <a href="https://doi.org/10.1007/s10965-023-03759-7">https://doi.org/10.1007/s10965-023-03759-7</a>
13.	Mr. Dhanasekar S, Dr. Vishvanathperumal S	Halloysite Nanotubes Effect on Cure and Mechanical Properties of EPDM/NBR Nanocomposites	Journal of Inorganic and Organometallic Polymers and Materials (2023)	17 June 2023	SCI <a href="https://doi.org/10.1007/s10904-023-02754-1">https://doi.org/10.1007/s10904-023-02754-1</a>
14.	Mr. Srinivasan D Dr. Vishvanathperumal S	Effect of HNTs and Modified HNTs Nanotubes on the Mechanical Properties and Swelling Resistance of EPDM/SBR Rubber Blend Nanocomposites	Silicon	27 Oct 2023	SCI <a href="https://doi.org/10.1007/s12633-023-02740-9">https://doi.org/10.1007/s12633-023-02740-9</a>
15.	Mr.Parthasarathy K Dr. Vishvanathperumal S	Effect of complex of resorcinol and hexamethylenetetramine modified halloysite nanotubes (RH-HNTs) on the mechanical and swelling characteristics of NR/EPDM nanocomposites	Journal of Polymer Research	18 September 2023	SCI <a href="https://doi.org/10.1007/s10965-023-03763-x">https://doi.org/10.1007/s10965-023-03763-x</a>
16.	Mr.S.J.Rajarajan	Study of Natural Language Processing for Sentiment Analysis	2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN), Salem, India, 2023, pp. 1425-1432	20.06.2023	Scopus Conference <a href="http://dx.doi.org/10.1109/ICPCSN58827.2023.00238">http://dx.doi.org/10.1109/ICPCSN58827.2023.00238</a>



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17.	Mr.K.N.Ramu	IoT-based Smart Home Automation Systems for Energy Conservation	2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2023, pp. 12-16	11 <sup>th</sup> October 2023	Scopus Conference  doi: 10.1109/I-SMAC58438.2023.10290633
18.	Mr.K.N.Ramu	Evaluation of the Potential of Biomass Energy as a Sustainable Alternative Energy Source	2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC), Kirtipur, Nepal, 2023, pp. 952-958,	11 <sup>th</sup> October 2023	Scopus Conference  doi: 10.1109/I-SMAC58438.2023.10290198.
19.	Dr.P.Sevvel, Mr.J.Vasanthe Roy	Parametric based optimization of friction stir welded wrought AZ80A Mg alloy employing response surface methodology	Materials Research Express, Volume 10, Number 11	17 <sup>th</sup> November 2023	SCI  10.1088/2053-1591/ad0ac4
20.	Dr. S. Vishvanathperumal, Mr. J. Vasanthe Roy, Mr. K. N. Ramu & Dr. S. Praveenkumar	An Investigation on the Effect of the Surface Modifications and HNTs Loading on the Cure behaviours, Abrasion Resistance, Mechanical and Morphological Properties of NR/EPDM Nanocomposites	Silicon (2023)	28 <sup>th</sup> December 2023	SCI  <a href="https://doi.org/10.1007/s12633-023-02837-1">https://doi.org/10.1007/s12633-023-02837-1</a>
21.	Mr.K.Manimaran	Integration of Solar Photovoltaics and Thermal Collectors for Hybrid Solar Energy Systems	2023 4th International Conference on Smart Electronics and Communication (ICOSEC)	20-22 Sept. 2023	Scopus Conference  doi: 10.1109/ICOSEC58147.2023.10276051



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22.	Mr.D.Srinivasan	Perception Sensors Based Fusion System and Method for Controlling Vehicle	2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN)	19-20- June 2023	Scopus Conference doi: 10.1109/ICPCSN58827.2023.00129
23.	Mr.D.Srinivasan	Impact of process parameters on transitions in the microstructural characteristics and mechanical attributes of Ti-6Al-4V alloy joints during FSW	Practical Metallography	18-Dec 2023	SCI <a href="https://doi.org/10.1515/pm-2023-1039">https://doi.org/10.1515/pm-2023-1039</a>
24.	Mr.C.Krishnamurthy	Evaluation of Mechanical and Thermal Behaviour of Ferrous and Non-Ferrous Nano Fillers based GFRP Composites	International Journal of Vehicle Structures and Systems 2023, 15(5), pp. 662-665	26 Dec 2023	Scopus Doi: <a href="https://doi.org/10.4273/ijvss.15.5.14">https://doi.org/10.4273/ijvss.15.5.14</a>
25.	Mr. K.A.V. Roosvelt Prabhu	Hybrid Deep Learning Technique for Optimal Wind Mill Speed Estimation	2023 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA)	09.02.2024	Conference Scopus <a href="https://doi.org/10.1109/ICECA58529.2023.10395587">https://doi.org/10.1109/ICECA58529.2023.10395587</a>
26.	Mr.K.Manimaran & Dr.S.Vishvanathperumal	On the Potential of Clay with Respect to Conventional Fillers (CB and SiO <sub>2</sub> ) for ENR Compatibilized NR/EPDM Vulcanizates	AIP Conference Prceedings Vol 3037, Issue 1, 020045 (2024)	02.04.2024	Conference Scopus <a href="https://doi.org/10.1063/5.0196614">https://doi.org/10.1063/5.0196614</a>
27.	Mr.K.N.Ramu	Fabrication of Multi-Configuration Unmanned Aerial Vehicle	AIP Conference Prceedings Vol 3037, Issue 1, 020041 (2024)	02.04.2024	Conference Scopus



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					<a href="https://doi.org/10.1063/5.0196406">https://doi.org/10.1063/5.0196406</a>
28.	Mr.S.J.Rajaraman	Analysis of lean implementation and practices in SME's using VSM	AIP Conf. Proc. 3037, 020043 (2024)	02.04.2024	Conference Scopus <a href="https://doi.org/10.1063/5.0196618">https://doi.org/10.1063/5.0196618</a>
29.	Mr.K.Manimaran & Mr.C.Dhanesh	Tribological properties optimization of nylon6 composites filled with SiC and Mica	Materials Today Proceedings	26.03.2024	Conference Scopus <a href="https://doi.org/10.1016/j.matpr.2024.03.048">https://doi.org/10.1016/j.matpr.2024.03.048</a>
30.	Mr.D.Srinivasan, Dr.P.Sevvel & Mr.J.Vasanthe Roy	Optimization of parameters and formulation of numerical model employing GRA-PCA and RSM approach for friction stir welded Ti-6Al-4V alloy joints	Materials Research Express Volume 11, Number 5 056511	16.05.2024	SCI <a href="https://doi.org/10.1088/2053-1591/ad48e3">https://doi.org/10.1088/2053-1591/ad48e3</a>
31.	Mr.K.Parthasarathy & Dr.S.Vishvanathperumal	Enhancement of the mechanical properties of EPDM/NBR rubbers using nanosilica for seal applications	AIP Conference Proceedings Vol 3037, Issue 1, 020044 (2024)	02.04.2024	Conference Scopus <a href="https://doi.org/10.1063/5.0196573">https://doi.org/10.1063/5.0196573</a>
32.	Mr.G.Prabaharan	Study on Mechanical Behaviour of AA2014 Aluminium Alloy Blended with Cobalt (Co) and Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	MATEC Web of Conferences 393, 01015 (2024)	13.03.2024	Conference Scopus <a href="https://doi.org/10.1051/mateconf/202439301015">https://doi.org/10.1051/mateconf/202439301015</a>
33.	Dr.P.Sevvel	Influence of tool geometry on mechanical and microstructural characteristics of friction stir welded cast alloys	Practical Metallography, vol. 61, no. 5, 2024, pp. 292-318.	25.04.2024	SCIE <a href="https://doi.org/10.1515/pm-2023-1055">https://doi.org/10.1515/pm-2023-1055</a>



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34.	Dr.S.Vishvanathperumal	Influence of Modified Nanosilica on the Performance of NR/EPDM Blends: Cure Characteristics, Mechanical Properties and Swelling Resistance	Journal of Inorganic and Organometallic Polymers and Materials 34, 3420–3442 (2024).	29.01.2024	SCIE <a href="https://doi.org/10.1007/s10904-023-02985-2">https://doi.org/10.1007/s10904-023-02985-2</a>
35.	Dr.S.Vishvanathperumal	Effect of nano-silica surface-capped by bis[3-(triethoxysilyl)propyl] tetrasulfide on the cure behaviors, mechanical properties, swelling resistance and microstructure of styrene-butadiene rubber/acrylonitrile-butadiene rubber nanocomposites	J Polym Res 31, 79 (2024).	27.02.2024	SCIE <a href="https://doi.org/10.1007/s10965-024-03924-6">https://doi.org/10.1007/s10965-024-03924-6</a>
36.	Dr.S.Vishvanathperumal	Enhancement of Mechanical Performance and Swelling Resistance in Silicone Rubber Through Reinforcement with $\gamma$ -Methacryloxypropyltrimethoxysilane-Modified Halloysite Nanotubes	J Inorg Organomet Polym 34, 2242–2259 (2024).	13.01.2024	SCIE <a href="https://doi.org/10.1007/s10904-023-02962-9">https://doi.org/10.1007/s10904-023-02962-9</a>