

Velammal College of Engineering and Technology, Madurai
(Autonomous)

Department of Mechanical Engineering

Scopus Indexed Papers

Authors	Title	Source title	DOI	Link
2024				
Vellaichamy, R., Beemaraj, R.K., Ashok Raj, R., Irudayaraj, A.E., Chandrasekar, M.S.	Optimization of welding parameters on weld deposits area in pulsed gas metal arc welding	E3S Web of Conferences	10.1051/e3sconf/202450903007	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190942085&doi=10.1051%2fe3sconf%2f202450903007&partnerID=40&md5=303676261b09274479f7348816efed97
Venkatesh, R., Anbumalar, V., Rajakarunakaran, S., Jerold John Britto, J.	Optimizing machining efficiency: a comprehensive study on PVD cathodic arc evaporation coated turning tool inserts with TiAlN/AlCrN multilayer coatings	Materials Research Express	10.1088/2053-1591/ad507e	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85195696310&doi=10.1088%2f2053-1591%2fad507e&partnerID=40&md5=ab1b7553e7b17c2236a3a31638be7133
Vellaichamy, R., Sudarsan, D., Theerkka Tharisanan, R., Allahpichai, M., Radha Krishnan, B.	Investigate the mechanical properties of Aluminium Metal Matrix Composite	Journal of Physics: Conference Series	10.1088/1742-6596/2748/1/012009	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85193399207&doi=10.1088%2f1742-6596%2f2748%2f1%2f012009&partnerID=40&md5=c412210e7cc3c7cbb296187c5aa6135b
Veerabathiran, A., Palanichamy, R., Rasu, K.	Effect of chitosan on mechanical and thermal properties of novel aloe vera fiber reinforced composites	Materialpruefung/Materials Testing	10.1515/mt-2023-0283	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85191830958&doi=10.1515%2fmt-2023-0283&partnerID=40&md5=281a49f51dc9de2063d67bdb7fb36dfc
Sathish Kumar, R.K., Sasikumar, R., Nagaprasad, N., Ezhilvannan, R., Krishnaraj, R.	Investigation of Mechanical and Thermal Stabilities of Tamarind Seed- and Peanut Shell Powder-Reinforced Vinyl Ester Composite	Advances in Materials Science and Engineering	10.1155/2024/8818030	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183693068&doi=10.1155%2f2024%2f8818030&partnerID=40&md5=af296b7a41f35d8aab31a27daf0c49d9
2023				
Sathish, T., Saravanan, R., Shreepad, S., Amuthan, T., Raj, J.I.D., Gaur, P., Vijayan, V., Rajkumar, S.	AZ63/Ti/Zr Nanocomposite for Bone-Related Biomedical Applications	BioMed Research International	10.1155/2023/6297372	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159363009&doi=10.1155%2f2023%2f6297372&partnerID=40&md5=05000d5db76e6d31ece7c43793dfe60c
Saravanan, R., Gnanavel, C., Ajith Arul Daniel, S., Rajesh, S., Kamatchi, T., Anbuchezhiyan, G., Sreekanth, S.	Analysis of mechanical properties enhancement on composites of AA7175 by multi walled carbon nano tube (MWCNT)	Materials Today: Proceedings	10.1016/j.matpr.2023.03.788	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85152559006&doi=10.1016%2fj.matpr.2023.03.788&partnerID=40&md5=5f586f18ad4040364f45a9a495622d96
Saravanan, R., Malladi, A., Amuthan, T., Aneesh, V.N., Jerin, A., Anbuchezhiyan, G., Saikumar, A.	Mechanical characterization of friction stir welded dissimilar aluminium alloy using Taguchi approach	Materials Today: Proceedings	10.1016/j.matpr.2023.03.278	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151398383&doi=10.1016%2fj.matpr.2023.03.278&partnerID=40&md5=13cd27d9a9491265c81ba8a0c15b1a29
Rasu, K., Veerabathiran, A.	Effect of red mud on mechanical and thermal properties of agave sisalana/glass fiber-reinforced hybrid composites	Materialpruefung/Materials Testing	10.1515/mt-2023-0118	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85173785548&doi=10.1515%2fmt-2023-0118&partnerID=40&md5=f46427be4c1cd2c9e9bd9d12c88f4b38
Mariappan, R.C.S., Veerabathiran, A., K.P, P., K.E.K, V.	Intelligent VSM Model: a way to adopt Industry 4.0 technologies in manufacturing industry	International Journal of Advanced Manufacturing Technology	10.1007/s00170-023-12406-w	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174013412&doi=10.1007%2fs00170-023-12406-w&partnerID=40&md5=de24b1997020be64c0ea85a1e4111fa9
Palathoti, N., Rajagopal, K., Byran, G., Raman, K., Jose, E., Gurunathan, M.	Computational design for the development of natural molecules as compelling inhibitors against the target SARS-CoV-2: An in-silico attempt	Journal of Applied Pharmaceutical Science	10.7324/JAPS.2023.134301	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85176213456&doi=10.7324%2fJAPS.2023.134301&partnerID=40&md5=2c8c50daf2d3ddfa98ee99bfaf82e552
Kamatchi, T., Sudarsan, D., Tharisanan, R.T., Karthikeyan, K.	A facile one-pot green-mediated approach of plasmonic (Ag and Au) nanoparticles fabricated by Hybanthus enneaspermus flower extracts for catalytic, anti-bacterial and anti-arthritis activity	Chemical Papers	10.1007/s11696-023-02839-8	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85159698611&doi=10.1007%2fs11696-023-02839-8&partnerID=40&md5=f51790610f0642869fb89588e7dc5437
Kamatchi, T., Saravanan, R., Rangappa, S.M., Siengchin, S.	Effect of filler content and size on the mechanical properties of graphene-filled natural fiber-based nanocomposites	Biomass Conversion and Biorefinery	10.1007/s13399-023-03911-9	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147754599&doi=10.1007%2fs13399-023-03911-9&partnerID=40&md5=16893e1f203b38d38212a8e1359e4dcf

Thirupathi, K., Roy, S., Narayanamurthy, G., Palaniappan, P.L., Subramanian, N.	Impact of High-Performance Work Practices on Efficiency and Effectiveness of Multispecialty Healthcare Service Delivery in an Emerging Economy - Role of Relational Coordination	IEEE Transactions on Engineering Management	10.1109/TEM.2021.3073141	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105862511&doi=10.1109%2FTEM.2021.3073141&partnerID=40&md5=9238130731578b614c2bd16ce09a9374
Kumar, B.V., Kanna, P.R., Manikandan, G., Taler, D., Taler, J., Sobota, T., Nowak-Ocłoń, M.	Investigation of Thermo-Hydraulic Performances of Artificial Ribs Mounted in a Rectangular Duct	Energies	10.3390/en16114404	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161579133&doi=10.3390%2fen16114404&partnerID=40&md5=70766a46f0a49d47793e048f57cca0cb
Raja, S., Anbumalar, V.	Mechanical and wear characteristics of (Al7075/SiC/Gr/Zr) hybrid metal matrix composites using ultrasonic assisted stir casting process	International Journal of Advanced Technology and Engineering Exploration	10.19101/IJATEE.2021.876468	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161445880&doi=10.19101%2FIJATEE.2021.876468&partnerID=40&md5=3050cb88e85d7c920838daabb207624f
Rasu, K., Veerabathiran, A.	Tribological behaviour of industrial waste based agave sisalana/glass fiber reinforced hybrid composites for marine applications	Materialpruefung/Materials Testing	10.1515/mt-2022-0431	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151912703&doi=10.1515%2fmt-2022-0431&partnerID=40&md5=c3bf1e708941bef4a6e0dd7a60a69d25
Manikandan, G., Kanna, P.R., Taler, D., Sobota, T.	Review of Waste Cooking Oil (WCO) as a Feedstock for Biofuel—Indian Perspective	Energies	10.3390/en16041739	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149169189&doi=10.3390%2fen16041739&partnerID=40&md5=afa77fbf11e6f3395393582594bfb00
Amuthan, T., Saravanan, R., Gnanavel, C., Manikandan, R., Jagadeeswaran, P., Anbuhezhiyan, G., Ganesh, M.	Cutting zone temperature reduction in by using novel nanofluid in SAE1144 machining	Materials Today: Proceedings	10.1016/j.matpr.2023.03.614	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85152940241&doi=10.1016%2fj.matpr.2023.03.614&partnerID=40&md5=3fe301d808d2c5c270dd6dd1a3282a0b
Venkatesh, R., Jerold John Britto, J., Amudhan, K., Anbumalar, V., Prabhakaran, R., Thiyaneesh Sakthi, R.	Experimental investigation of mechanical properties on CF reinforced PLA, ABS and Nylon composite part	Materials Today: Proceedings	10.1016/j.matpr.2022.12.091	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85145505072&doi=10.1016%2fj.matpr.2022.12.091&partnerID=40&md5=f250abf7c063d03b0ed55bbb52ec7d3a
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Velmurugan, G., Dinesh Kumar, N., Perumal, A., Rajkumar, P.R., Gangadharan, T., Sekar, S., Suresh Kumar, S., Siva Shankar, V., Bhagavathi, M.S.	Potential Utilization and Characterization of Epoxy Based Biomaterials under Alkaline Environment	AIP Conference Proceedings	10.1063/5.0108535	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144152504&doi=10.1063%2f5.0108535&partnerID=40&md5=5f2805148be7106120bca74e992b962c
Hynes, N.R.J., Kumar, D.S.S.P., Prabhu, M.V., Ali, M.A., Raza, M.H., Pruncu, C.I.	Investigating the parametric effects on wire electric discharge machining performance in processing AA1050-5 wt.% SiC composite with zinc-coated brass wire	Journal of the Brazilian Society of Mechanical Sciences and Engineering	10.1007/s40430-022-03427-9	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85126244832&doi=10.1007%2fs40430-022-03427-9&partnerID=40&md5=61290fd2b99c358b8f6affcf37ae2bde
Balakrishnan, V.K., Gurunathan, M., Parthasarathy, R.K., Poluru, V.R.	EXPERIMENTAL ANALYSIS OF SOLAR AIR HEATER USING POLYGONAL RIBS IN ABSORBER PLATE INTEGRATED WITH PHASE CHANGE MATERIAL	Thermal Science	10.2298/TSCI210518345V	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85135065751&doi=10.2298%2FTSCI210518345V&partnerID=40&md5=4956016eb34a0c73d4e30eff36bd5a4b
Rajesh, S., Saravanan, R., Kamatchi, T., Gnanavel, C., Ajith Arul Daniel, S., Nagarathi, D.K.	Evaluation on hardness and percentage of elongation discrepancy by Zinc oxide nanoparticles on AA6070 alloy composites	Materials Today: Proceedings	10.1016/j.matpr.2022.01.449	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85133303114&doi=10.1016%2fj.matpr.2022.01.449&partnerID=40&md5=acf471be43c4346b025121c49c853db9
Karthick, R., Anbumalar, V.	Machining behaviour of natural fiber reinforced epoxy composites	Advances in Materials Science Research		https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141587370&partnerID=40&md5=da69cd1c9fb58472fe47cb2ac65ed1d1
Amuthan, T., Sanjeevi, R., Kannan, G.R., Sridevi, A.	A novel p-CuFe2O4/n-ZnS heterojunction photocatalyst: Co-precipitation synthesis, characterization and improved visible-light driven photocatalytic activity for removal of MB and CV dyes	Physica B: Condensed Matter	10.1016/j.physb.2022.413842	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85128595472&doi=10.1016%2fj.physb.2022.413842&partnerID=40&md5=3ec8d834189380c40ccb1d3b8b3b4de5
Amuthan, T., Rathinam, V., Subbarayan, M.R., Radha Krishnan, B.	Processing and Characterisation of Epoxy–SiC Functionally Graded Polymer Matrix Composites	Journal of Inorganic and Organometallic Polymers and Materials	10.1007/s10904-022-02315-y	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85127662661&doi=10.1007%2fs10904-022-02315-y&partnerID=40&md5=bfd53bf873679d6c726ef578fe7ca398
Saravanan, R., Gnanavel, C., Rajesh, S., Kamatchi, T., Ajith Arul Daniel, S., Nagarathi, D.K.	Synthesis of Zinc oxide and CNT in AA7178 aluminium alloy composite impression on characteristics	Materials Today: Proceedings	10.1016/j.matpr.2022.02.197	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85128625699&doi=10.1016%2fj.matpr.2022.02.197&partnerID=40&md5=494279c1e83bbfb1a69cab0edb92a74a

Rajesh Jesudoss Hynes, N., Vivek Prabhu, M., Shenbaga Velu, P., Kumar, R., Tharmaraj, R., Farooq, M.U., Pruncu, C.I.	An experimental insight of friction stir welding of dissimilar AA 6061/Mg AZ 31 B joints	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	10.1177/095440542111043474	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114179195&doi=10.1177%2f095440542111043474&partnerID=40&md5=6ec26f649717bfb9131330478e8f9935
Raja, S., Saravanan, R., Maran, M., Rajesh, S., Senthilkumar, R., Nagarathi, D.K.	Reconnoitering the influence of nanofluid of GnPs enriched waste coconut oil in machining SAE 1045 shaft on modification surface finish	Materials Today: Proceedings	10.1016/j.matpr.2022.04.574	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85132611660&doi=10.1016%2fj.matpr.2022.04.574&partnerID=40&md5=6449f577e1c560be28bb30254c600d2b
Rasu, K., Veerabathiran, A.	A Review on Drilling of Natural and Synthetic Fiber Reinforced Polymer Composites: 1992 - 2021	Journal of Natural Fibers	10.1080/15440478.2022.2070325	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85131156706&doi=10.1080%2f15440478.2022.2070325&partnerID=40&md5=7a41fe6be152f571d46879e6b9c6e2ad
Senthilkumar, R., Saravanan, R., Maran, M., Rajesh, S., Raja, S., Nagarathi, D.K.	Experimentally exploring nano-fluid of GnPs enriched waste coconut oil effects in cutting zone temperature reduction in motor shaft manufacturing process	Materials Today: Proceedings	10.1016/j.matpr.2022.04.695	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129958932&doi=10.1016%2fj.matpr.2022.04.695&partnerID=40&md5=93910ca51198ab1e4d0bb84e3d838d95
Maran, M., Saravanan, R., Rajesh, S., Raja, S., Senthilkumar, R., Nagarathi, D.K.	Experimental analysis on Feed force reduction performance by Nanofluid of Graphene Nano platelets enriched Waste Coconut Oil in wet Machining of SAE 1045 Steel Shaft	Materials Today: Proceedings	10.1016/j.matpr.2022.04.750	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129529149&doi=10.1016%2fj.matpr.2022.04.750&partnerID=40&md5=64f1d8bbe6f56bd4e7b20d6477e53e60
Anand, P., Rajesh, D., ShunmugaSundaram, M., Anbumalar, V.	Finite Element Analysis of Hemp Fiber Reinforced Cellulose Filled Epoxy Hybrid Composite	Journal of Natural Fibers	10.1080/15440478.2021.1982809	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85117230243&doi=10.1080%2f15440478.2021.1982809&partnerID=40&md5=fbb558a9ba1b0703ae3035f5cf7f7893
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Varun Kumar, B., Manikandan, G., Rajesh Kanna, P.	Enhancement of heat transfer in SAH with polygonal and trapezoidal shape of the rib using CFD	Energy	10.1016/j.energy.2021.121154	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85109199904&doi=10.1016%2fj.energy.2021.121154&partnerID=40&md5=0790baa3b78e3a9b9351e0ef840d9ee9
Anbumalar, V., Mayandy, R., Shunmugasundaram, M.	Cellular layout formation using clonal selection algorithm with fixed entry and exit point	International Journal of Manufacturing Technology and Management	10.1504/IJMTM.2021.121107	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85125657625&doi=10.1504%2fIJMTM.2021.121107&partnerID=40&md5=a9dd6149c34e579d58e884c4329b8846
Amuthan, T., Nagaprasad, N., Krishnaraj, R., Narasimharaj, V., Stalin, B., Vignesh, V.	Experimental study of mechanical properties of AA6061 and AA7075 alloy joints using friction stir welding	Materials Today: Proceedings	10.1016/j.matpr.2021.04.628	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114105737&doi=10.1016%2fj.matpr.2021.04.628&partnerID=40&md5=f38ea3509b70413804dd0e8442538ffb
Jule, L.T., Krishnaraj, R., Nagaprasad, N., Stalin, B., Vignesh, V., Amuthan, T.	Evaluate the structural and thermal analysis of solid and cross drilled rotor by using finite element analysis	Materials Today: Proceedings	10.1016/j.matpr.2021.05.544	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114118437&doi=10.1016%2fj.matpr.2021.05.544&partnerID=40&md5=1022d5e95c6b1eef9acdf210196c590b
Sivakumar, M., Lenin, N., Jayakrishna, K., Prasath, N.E.	Minimizing Cost of Assembly of an Interrelated Dimensional Chain Product Using ABC Algorithm	Mathematical Problems in Engineering	10.1155/2021/9811204	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85112316555&doi=10.1155%2f2021%2f9811204&partnerID=40&md5=eb3fe6322aaa64a5133001e196739ad5
Nagasundaram, N., Devi, R.S., Rajkumar, M.K., Sakthivelrajan, K., Arravind, R.	Experimental investigation of injection moulding using thermoplastic polyurethane	Materials Today: Proceedings	10.1016/j.matpr.2020.10.264	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107363872&doi=10.1016%2fj.matpr.2020.10.264&partnerID=40&md5=9100aa19b28b01d4114e1f53d929a3be
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Eswara Prasath, N., Selvabharathi, R.	Influence of Plasma Transfer Arc Cladding of NiCrBFe filler powder on microstructure and tensile properties of Titanium Grade 2 and Ti 6Al-4V alloy dissimilar joint prepared by laser beam welding	Optics and Laser Technology	10.1016/j.optlastec.2020.106206	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082669515&doi=10.1016%2fj.optlastec.2020.106206&partnerID=40&md5=d60c763aed3a3173c589b13e1e5d267f
Shunmugasundaram, M., Kamalakannan, R., Anbumalar, V., Maneiah, D.	Machine cell formation and part family identification by combined algorithm	Progress in Industrial Ecology	10.1504/PIE.2020.113421	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102176920&doi=10.1504%2fPIE.2020.113421&partnerID=40&md5=ba7fc2197c34b913df9210bcd83d8885

Mohan, M.S., Anbumalar, V., Kumaran, S.T.	Kinematic modelling and simulation of PID controlled SCARA robot with multiple tool end effector	International Journal of Modelling, Identification and Control	10.1504/IJMIC.2020.113291	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101817052&doi=10.1504%2fIJMIC.2020.113291&partnerID=40&md5=60b0dbbf36941204488bf0bba56d529
Maran, M., Kumar, R., Sentharamaikannan, P., Saravanakumar, S.S., Nagarajan, S., Sanjay, M.R., Siengchin, S.	Suitability Evaluation of Sida mysorensis Plant Fiber as Reinforcement in Polymer Composite	Journal of Natural Fibers	10.1080/15440478.2020.1787920	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087797834&doi=10.1080%2f15440478.2020.1787920&partnerID=40&md5=2acc424816436741e1d72e52ba8169f9
Kamatchi, T., Palaniappan, P.L.K.	Healthcare relational coordination: A review on parameter selection for modified high performance work practices	International Journal of Services and Operations Management	10.1504/IJSOM.2020.105267	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083250160&doi=10.1504%2fIJSOM.2020.105267&partnerID=40&md5=6b6de1d258e89964ce3d3d28a5ef50e6
Shunmugasundaram, M., Anbumalar, V.	Cellular layout formation by using weighted similarity-based modified flow matrix with process sequence data	International Journal of Manufacturing Technology and Management	10.1504/IJMTM.2020.105817	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082176663&doi=10.1504%2fIJMTM.2020.105817&partnerID=40&md5=ca0653c295154cf61aa4ece8db91d152
Kumar, P.M., Anbumalar, V.	Effect of pin profiles on the mechanical properties of friction-stir-welded AA5383 and AA7075	Materiali in Tehnologije	10.17222/mit.2019.056	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081679256&doi=10.17222%2fmit.2019.056&partnerID=40&md5=276fcdbe04125424e04165b3f97471e6
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Dhrioua, M., Hassen, W., Kolsi, L., Anbumalar, V., Alsagri, A.S., Borjini, M.N.	Gas distributor and bed material effects in a cold flow model of a novel multi-stage biomass gasifier	Biomass and Bioenergy	10.1016/j.biombioe.2019.05.001	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065561878&doi=10.1016%2fj.biombioe.2019.05.001&partnerID=40&md5=18e3294972b3daa2a7e304433ee0b1b9
Sangupandy, D., Chockalingam, K., Ramesh, M., Anbumalar, V.	Influence of circumferential curve shapes and surface options on curve length and volume of axisymmetric components in modelling for reverse engineering applications	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A	10.1080/02533839.2018.1553635	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060912853&doi=10.1080%2f02533839.2018.1553635&partnerID=40&md5=49623dcbf87c26a776c9f3de5a493f2a
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