Dr.A.N.Balaji,
Professor,
Dept. of Mechanical Engineering,
K.L.N. College of Engineering, Pottapalayam - 630 612

<u>balajime@yahoo.com</u>
9942097123

List of Publication:

Publication	Year
Preparation of bio-eco based cellulose nanomaterials from used disposal paper cups	
through citric acid hydrolysis	2020
KJ Nagarajan, AN Balaji, STK Rajan, NR Ramanujam	2020
Carbohydrate Polymers 235, 115997	
Investigation and characterization of Copper-Fly ash-Tungsten hybrid composites	
synthesized through P/M process	2020
STK Rajan, AN Balaji, GR Raghav, KJ Nagarajan, SC Vettivel	2020
Materials Research Express 7 (3), 036531	
Effect of agro waste α -cellulosic micro filler on mechanical and thermal behavior of	
epoxy composites	2020
KJ Nagarajan, AN Balaji, KS Basha, NR Ramanujam, RA Kumar	2020
International Journal of Biological Macromolecules	
Effect of sulfuric acid reaction time on the properties and behavior of cellulose	
nanocrystals from Cocos nucifera var-Aurantiaca peduncle's cellulose microfibers	2019
KJ Nagarajan, AN Balaji, STK Rajan, KS Basha	2017
Materials Research Express 6 (12), 125333	
Preparation and characterization of alkali treated cocos nucifera var aurantiaca	
peduncle fibers reinforced epoxy composites	2019
KJ Nagarajan, AN Balaji, NR Ramanujam, STK Rajan	2017
Materials Research Express 6 (12), 125310	
Effect of tungsten reinforcement on mechanical, tribological and corrosion behaviour	
of mechanically alloyed Co-25C Cermet nanocomposites	2019
GR Raghav, AN Balaji, N Selvakumar, D Muthukrishnan, E Sajith	2019
Materials Research Express 6 (11), 1165e4	
Extraction of cellulose nanofibers from cocos nucifera var aurantiaca peduncle by ball	
milling combined with chemical treatment	2019
KJ Nagarajan, AN Balaji, NR Ramanujam	2019
Carbohydrate polymers 212, 312-322	
Solving fixed charge transportation problem with truck load constraint using	
metaheuristics	2019
AN Balaji, JM Nilakantan, I Nielsen, N Jawahar, SG Ponnambalam	
Annals of Operations Research 273 (1-2), 207-236	
Compression and corrosion behaviour of sintered copper-fly ash composite material	2019
STK Rajan, AN Balaji, GR Raghav, SC Vettivel	2017

1	
Materials Research Express 6 (4), 046524	
Analysing the performance of lean manufacturing implementation with chronological	
execution of lean elements using spread sheet features: a case study	2019
R Sundar, AN Balaji, RMS Kumar	
International Journal of Productivity and Quality Management 27 (1), 66-96	+
Particle swarm optimisation algorithm and multi-start simulated annealing algorithm	
for scheduling batches of parts in multi-cell flexible manufacturing system	2019
AN Balaji, S Porselvi, N Jawahar	
International Journal of Services and Operations Management 32 (1), 83-129	
Isolation and characterization of cellulose nanocrystals from Saharan aloe vera cactus	
fibers	2018
KJN Nagarajan, AN Balaji, NR Ramanujam	
International Journal of Polymer Analysis and Characterization, 1-14	<u> </u>
An experimental investigation on wear and corrosion characteristics of Mg-Co	
nanocomposites CD Declared AN Delaii D Marthabaich and M Strathi E Seiith	2018
GR Raghav, AN Balaji, D Muthukrishnan, V Sruthi, E Sajith	
Materials Research Express 5 (6), 066523	
Microstructural, electrical, thermal and tribological studies of copper-fly ash	
composites through powder metallurgy	2018
P Narayanasamy, AN Balaji, SC Vettivel	
Bulletin of the Polish Academy of Sciences: Technical Sciences, 935-940	
Preparation of Co–Gr nanocomposites and analysis of their Tribological and corrosion characteristics	
GR Raghav, AN Balaji, D Muthukrishnan, V Sruthi	2018
Металлофизика и новейшие технологии	
Effect of Nano-TiO ₂ Particles on Wear and Corrosion Behaviour of AA6063 Surface	
Composite Fabricated by Friction Stir Processing	
D Muthukrishnan, AN Balaji, GR Raghav	2018
Металлофизика и новейшие технологии	
Preparation and Analysis of Tribological and Corrosion characteristics of Co-Gr	
Nano-Composites	
VS GR.Raghav, AN.Balaji, D.Muthukrishnan	2018
Metallofiz. Noveishie Tekhnol. 40 (7), 979–992	
Mechanical and wear behaviour of the Al-Mg-nano ZrC composite obtained by means	
of the powder metallurgy method	
G Sankaranarayanan, AN Balaji, K Velmanirajan, K Gangatharan	2018
Bulletin of the Polish Academy of Sciences. Technical Sciences 66 (5)	
Solving the multi-period fixed cost transportation problem using LINGO solver	
N Balaji, AN Balaji	2018
International Journal of Pure and Applied Mathematics 119 (12), 2151-2157	
Artificial immune system and particle swarm optimisation algorithms for an	
integrated production and distribution scheduling problem	2010
S Porselvi, AN Balaji, N Jawahar	2018
International Journal of Logistics Systems and Management 30 (1), 31-68	
Characterization of alkali treated and untreated new cellulosic fiber from Saharan aloe	2017
vera cactus leaves	2017

AN Balaji, KJ Nagarajan	
Carbohydrate Polymers 174, 200-208	
Effect of wood sawdust filler on the mechanical properties of Indian mallow fiber	
yarn mat reinforced with polyester composites	2017
V Vignesh, AN Balaji, MKV Karthikeyan	2017
International Journal of Polymer Analysis and Characterization 22 (7), 610-621	
Characterization of new natural cellulosic fiber from kusha grass	
AN Balaji, MKV Karthikeyan, V Vignesh	2016
International Journal of Polymer Analysis and Characterization 21 (7), 599-605	
Extraction and characterization of new cellulosic fibers from Indian mallow stem: An	
exploratory investigation	2016
V Vignesh, AN Balaji, MKV Karthikeyan	2010
International Journal of Polymer Analysis and Characterization 21 (6), 504-512	
Extraction and characterization of alkali-treated red coconut empty fruit bunch fiber	
KJ Nagarajan, AN Balaji	2016
International Journal of Polymer Analysis and Characterization 21 (5), 387-395	
Effect of rope mat and random orientation on mechanical and thermal properties of	
banana ribbon-reinforced polyester composites and its application	2016
MKV Karthikeyan, AN Balaji, V Vignesh	2010
International journal of polymer analysis and characterization 21 (4), 296-304	
Productivity improvement of an industry by implementing lean manufacturing	
principles	2014
SK Kumari, AN Balaji, R Sundar	2014
International Journal of Innovative Research in Science, Engineering and	
Experimental Investigation and Material Characterization of A356 Based Composite	
(TiO2) By Friction Stir Processing	2014
GRR M.Saravana Durai, D.Muthukrishnan, A.N.Balaji	2014
International Journal of Innovative Research in Science, Engineering and	
Artificial Immune System algorithm for multi objective flow shop scheduling problem	
M Vairamuthu, S Porselvi, AN Balaji, JR Babu	2014
International Journal of Innovative Research in Science, Engineering and	
Experimental investigation on corrosion resistant properties of copper based	
nanocomposite coatings	2014
GR Raghav, AN Balaji, K Murugan, B HarishKumar	2014
Int. J. Innov. Res. Sci. Eng. Tech. 3	
Artificial immune system algorithm and simulated annealing algorithm for scheduling	
batches of parts based on job availability model in a multi-cell flexible manufacturing	
system	2014
AN Balaji, S Porselvi	
Procedia Engineering 97, 1524-1533	
A review on lean manufacturing implementation techniques	
R Sundar, AN Balaji, RS Kumar	2014
Procedia Engineering 97 (1), 1875-1885	
A simulated annealing algorithm for a two-stage fixed charge distribution problem of	
a supply chain	2010
AN Balaji, N Jawahar	

International Journal of Operational Research 7 (2), 192-215	
A genetic algorithm for the two-stage supply chain distribution problem associated	
with a fixed charge	2009
N Jawahar, AN Balaji	2009
European Journal of Operational Research 194 (2), 496-537	

Supervisor

Director / Head of the Center