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Quarterly Newsletter IV October - December 2021

Kalasalingam Academy of Research and
Education
(Deemed to be University)
Krishnankoil -626126

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1. GENERAL

PARTICIPATION IN RANKING AND ACCREDITATIONS

1. KARE has been ranked 3rd place in IKS (Indian Knowledge System) on 05.09.2021 in AICTE Clean and Smart Campus Award.
2. On 06.10.2021 in the THE Subject Validation KARE has been Ranked as follows:
 - i. Ranked 601–800 in Engineering
 - ii. Ranked 401-500 in Computer Science
3. On 19.10.2021 in the THE Subject Validation KARE has been Ranked 301-350 in Emerging Economies.
4. KARE has been Ranked 601-650 in QS Asia University Ranking 2022 on 02.11.2021.
5. KARE participated in the THE Impact Ranking by submitting data on 19.11.2021.
6. KARE participated in the Green Metric by submitting data on 20.11.2021.
7. The following programmes successfully submitted the data for NBA prequalifiers on 31.12.2021
 - i. B.Tech. CSE
 - ii. B.Tech. ECE
 - iii. B.Tech. Biotech
 - iv. B.Tech. Food Tech
 - v. B.Tech. IT
 - vi. M.Tech. Industrial Safety
 - vii. M.Tech. Structural Engineering
 - viii. B.Tech. Biotechnology

TAIWAN EDUCATION CENTRE

Kalasalingam Academy of Research and Education signed an MoU with Taiwan Education Centre and was inaugurated on 16th November 2021. The photo was shot on the day of inauguration with the Vice President Dr. Shasi Anand, the Vice-Chancellor Dr. Nagaraj Ramrao, the Registrar Dr. V. Vasudevan along with Mr. Peters Chen – Director of Education Division and Prof. Dr. Chin Tsan Wang – Director of Science Division.



34TH CONVOCATION

The 34th convocation was held on 10th December, 2021 and 1708 students were awarded degrees which includes undergraduate, post graduate, Doctoral degrees. Chief guest Sanghamitra Bandyopadhyay, Director, Indian Statistical Institute, Kolkata, distributed the degrees to rank holders and Ph.D students, while the guest of honour Subramani Ramakrishnan, Director, Workforce Management, IBM Ltd., Chennai distributed the certificates.



2. ACADEMICS

PARTICIPATIONS OF FACULTY MEMBERS IN CONFERENCES, SEMINARS, WORKSHOPS

No	Department	Participants
1.	Commerce	9
2.	Mathematics	3
3.	Information Technology	1
4.	Electronics and Communication Engineering	11

IDEATHON' 21

ACIC-KIF in association with NITI Aayog supported by ATAL Innovation Mission inaugurated Ideathon'21 on December 2021 at ACIC-KIF Community Innovation Space, Library 2nd floor.



The banner features logos for ACIC-KIF, NITI Aayog, and ATAL Innovation Mission at the top. The central text reads: "join us for the inauguration of IDEATHON' 21 On 08 December 2021, 10.00 AM at ACIC-KIF Community innovation Space, Library 2nd floor". It lists the following dignitaries: Dr. K Sridharan (Chancellor, KARE) & Dr. S. Arivalagi (Pro-Chancellor, KARE); Dr. S. Shasi Anand (Vice President, KARE) & Mr. S. Arjun Kalasalingam (Vice President, KARE). It also mentions Dr. V. Vasudevan (Registrar KARE/ACIC - KIF Director) and Dr. R. Nagaraj (Vice-Chancellor, KARE). The banner concludes with "we look forward to your presence" and "Dr. B. Subathra & ACIC-KIF Team". A small logo of Kalasalingam Academy of Research and Education is in the bottom right corner.

3. STUDENT SUPPORT AND PROGRESSION

ACTIVITIES OF PHYSICAL EDUCATION

TAEKWONDO KYORUGI AND POOMSAE CHAMPIONSHIP 2021

The Students of KARE made their Alma mater proud by their rocking performance in Taekwondo Kyorugi and Poomsae Championship 2021 held between 24th and 25th December 2021 organized by Cuddalore District Amateur Taekwondo Association. M. Rajeswari of I MSW and M. Karthigaiselvi of III BBA shared the Gold Medal; K. Maniraj of III BA English and G. Keerthika of I B. Com (CA) shared the Silver Medal; S. Vijay of I B.Sc. (CS) bagged the bronze.

KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)
Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade
Anand Nagar, Krishnankoil - 626126, Srivilliputtur (Via), Virudhunagar (DT), Tamil Nadu | info@kalasalingam.ac.in | www.kalasalingam.ac.in

DEPARTMENT OF PHYSICAL EDUCATION

 M. RAJESWARI - I MSW 62 - 67 KG GOLD	 M. KARTHIGAI SELVI - III BBA 67 - 72 KG GOLD	 K. MANIRAJ - III B.A ENGLISH 58 - 63 KG SILVER	 G. KEERTHIKA - I B.COM (CA) 42 - 44 KG SILVER	 S. VIJAI - I B.SC (CS) 51 - 55 KG BRONZE
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CONGRATS TO MEDAL WINNERS

1st TAMIL NADU STATE INTER ZONE TAEKWONDO KYORUGI & POOMSAE CHAMPIONSHIP - 2021
Organized by Cuddalore District Amateur Taekwondo Association
VENUE : Virudhachalam, Cuddalore District

Date : 24th & 26th December 2021

SWIMMING CHAMPIONSHIP 2021

Tirunelveli Aquatics Association organised 15th Tamil Nadu State Short Course Age Group Swimming Championship 2021, on 27th and 29th December at Anna Stadium, Tirunelveli. Our Students Bagged 2 Silver Medals in 4x100 mts Free Style Relay and 4x100 mts Medley Relay and 4 bronze Medals in 4x100 mts Medley Relay and 100 mts Breast Stroke respectively.

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OFFICE OF THE DIRECTOR - STUDENT AFFAIRS
DEPARTMENT OF PHYSICAL EDUCATION

CONGRATS TO MEDAL WINNERS

WOMEN
4x100 Mts Free Style Relay
& 4x100 Mts Medley Relay

T.JAISSHA - III B.COM (CA)
T.SHARMILA - III B.COM (CA)
G.NARMATHA - III B.COM (CA)
S.KEERTHIKA - I B.COM (R)

15TH TAMIL NADU STATE SHORT COURSE AGE
GROUP SWIMMING CHAMPIONSHIP - 2021
Organized by Tirunelveli Aquatics Association
VENUE :Tirunelveli, Anna Stadium.
Date : 27th to 29th December 2021

Men
4x100 Mts Medley Relay
K. NANDHU VIKRAM
III B.COM (R)
K. NITHISH KARTHIKEYAN
III B.SC (PHYSICS)
J. MARTIN - II B.A (ENGLISH)
M. KAVINKAR - II B.COM (R)

2 SILVER
Bronze
Bronze

ALUMNI ENGAGEMENT

Dr. Richa Pandey, Department of Biotechnology (Batch 2011) has joined the University of Calgary, Canada as an Assistant Professor.

ACTIVITY OF GREEN ARMY

HOW TO CONSERVE ENERGY IN BUILDINGS

Building Energy Conservation was organized at Kalasalingam Academy of Research and Education by arranging a Guest lecture on the topic “**How to Conserve Energy in Buildings**” via Google-meet on 9th of October 2021 from 4:00 pm to 5:00 pm. Dr. Syed Shuibul Qarnain, Building Services Engineer Doha, Qatar briefed about the building energy conservation. 64 students participated in this programme.



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Guest Lecture on
HOW TO CONSERVE ENERGY IN BUILDINGS
Organized By
GREEN ARMY



Guest :
Syed Shuibul Qarnain
Building Services Engineer
Doha, Qatar

Date: 09/10/2021
Time: 4 p.m - 5 p.m

Program Officer:
Dr. P. Sivakumar
Professor/Director
Student Affairs

Staff Incharge:
Dr. S. Muthuvel
Associate Professor

Coordinator:
Dr. M. Muthu Kannan
Professor

Ms. N. Vigneshwari
Assistant Professor

 **TO JOIN THE LECTURE**
meet.google.com/tnk-tczj-zzm

ACTIVITY OF YOUTH RED CROSS

RALLY 2K21

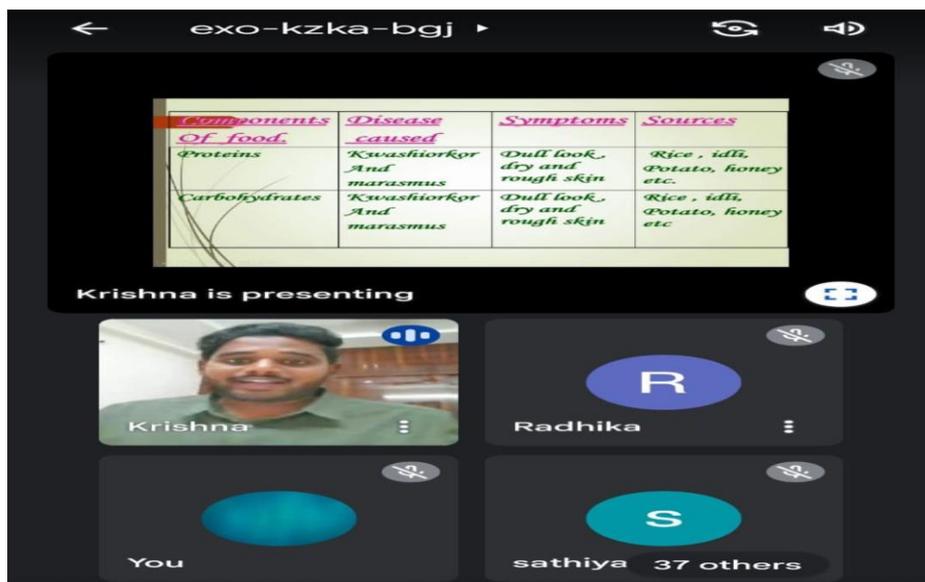
KARE - Youth Red Cross club organized “**Rally 2K21**” to create awareness among the public regarding cleanliness of our environment and also to impart education to youth in taking part in societal activities. 661 students participated in Rally 2k21.



ACTIVITIES OF NCC

HEALTH AND HYGIENE

National Cadet Corps [4TN ENGR COY], Kalasalingam Academy of Research and Education conducted an online workshop on the topic '**Health and Hygiene**' by Dr. Krishnan on Dec 22, 2021. The program commenced in the afternoon at 1pm. The medical officer gave a lecture on day-to-day life relevant healthy tips and practices that we should follow to improve and maintain a healthy life. He presented essential nutrients required for a healthy body and their deficiency causing diseases. He talked about the life changes that people adopted due to COVID-19 pandemic and its benefits to build a disease-free economy.



CADRE CAMP

In the pandemic situation DG NCC instruct to conducted cadre camp for NCC cadets as mandatory camp for NCC certificate examination. For that, a cadre camp was organized by 4 (TN) Engr Coy NCC in NCC Training Area, Idayapatti from 26.12.2021 to 01.01.2022.



Validatory function on 31.12.2021

ACTIVITY OF PHOTOGRAPHY

ATTAIN 3.0

Attain 3.0 event was conducted by photography club on 27.11.2021. 366 students participated in this event.



ACTIVITIES OF TAMIL MANDRAM

MAHATHMA 2021

KARE - Tamil Mandram celebrated 152nd Mahatma Gandhi's birthday on 02.10.2021. 127 students participated in this event.

தலைமைப் புரவலர்கள்
முனைவர் க.புரீதிரன் வேந்தர்
முனைவர் பூர்.சசி ஆனந்த் துணைத்தலைவர்
திரு பூர்.அர்ஜீன் கலசலிங்கம் துணைத்தலைவர்

புரவலர்கள்
முனைவர் இரா.நாகராஜ் துணைவேந்தர்
முனைவர் வெ.வாசுதேவன் பதிவாளர்

செயலாளர்
முனைவர் போ.சிவக்குமார் மாணவர் நல இயக்குநர்

ஒருங்கிணைப்பாளர்
முனைவர் சி.சங்கீதா உதவிப் பேராசிரியர் தமிழ்த்தறை

மாணவ ஒருங்கிணைப்பாளர்கள்
ம.சக்திகுமார்
முதுநிலை வணிக மேலாண்மை ம.சந்தோஷகுமார்
முதுநிலை வணிக மேலாண்மை

கலசலிங்கம்
கல்வி மற்றும் ஆழம்கரி நியுவனம்
நிகர்நிலைப் பல்கலைக்கழகம்
தேசியத் தர நிர்ணயக்குழுவின் "A" தரச்சான்று பெற்றது
ஆனந்த் நகர், கிருஷ்ணைக்கோவில், விருதுநகர் 626126

துணைவு இல்லைமேல் வாய்மை இல்லை
வாய்மை இல்லைமேல் பிற அறங்களுக்கும் இல்லை...

அக்டோபர்-2 **தமிழ் மன்றம்**
நடத்தும்
அண்ணலின் காந்தியழகனின்
152 - வது பிறந்தநாள் விழா
மகாத்மா '21
Registration link here
போட்டிகள்

பழகக்குப் புதுசு
கட்டுரைப் போட்டி

தொடர்புக்கு...
சக்திகுமார் 6385780907
சந்தோஷகுமார் 9994224714

ஆசிரிய ஆலோசகர்
முனைவர் சி.சங்கீதா
உதவிப் பேராசிரியர் (தமிழ்)
KARE

TAMIZHI 2K21

KARE - Tamil Mandram celebrated Tamil New year celebration under the topic **TAMIZHI 2K21** on 04.12.2021 in Dr. K.S. Krishnan Auditorium. Mr. M. Sakthi Kumar delivered the Welcome Address, Dr. C. Sangeetha, Coordinator, Tamil Mandram delivered the Keynote Address and Dr. M. Muthukannan, Director Student Affairs, delivered the Special address in this event. 500 students participated in this event.

... வந்தல் 2021 வந்தல் தோள் ...

தமிழ் மன்றம்
நடத்தும்
AN OPEN INTRA COLLEGE FEST
தமிழ் - 2K21
TAMIZHI
DANCE | GAMING | MACROGRAPHY | MEMES | LITERATURE
GRAND DJ & CULTURAL FASHION PARADE

M.SAKTHIKUMAR
PRESIDENT
TAMIL MANDRAM
(6385780907)

VENUE
DR. K.S. KRISHNAN AUDITORIUM
ON DEC 04

S.SANGEETHA
ASST.PROF. OF TAMIL
CO-ORDINATOR
TAMIL MANDRAM

kar_tamilmandram@gmail.com



4. RESEARCH

SEMINARS, WORKSHOPS, TRAINING PROGRAMS, CERTIFICATION PROGRAMS AND FDP ORGANIZED

S. No	Title	Department	Date	No. of Attendees
1.	Art Festival	Architecture	27.10.2021 to 30.10.2021	118
2.	Recent Trends in Cloud computing and AWS	Information Technology	12.11.2021	30
3.	Fundamentals of Electronics	Electronics Communication Engineering	11.12.2022	53
4.	Launchpad for Architectural Career	Architecture	15.12.2021 to 16.12.2021	29
5.	Extending the Application of Mesoporous Silica: A Story of Ultrabright Fluorescent Tags	Chemistry	16.11.2022	42
6.	Launchpad for Architectural Career	Architecture	15.12.2021 to 16.12.2021	29
7.	One Week Faculty Development Program on Ann / IoT & Power Analysis / Verification in VISI Circuits	Electronics Communication Engineering	16.12.2022 to 21.12.2022	20
8.	National Mathematics Day	Mathematics	22.12.2022	200

CONFERENCE ORGANIZED FOR TEACHING FACULTY

S. No	Department	Faculty In charges	Supporting Body	Date
1.	Architecture	L.Vinu Pandyan	Greenvio Solutions, Maharashtra in association with IFTM University, Moradabad	03.12.2021

PHD VIVA- VOCE EXAMINATION DEFENDED BY FACULTY MEMBERS

Name of the faculty member and department	Supervisor	Thesis title	Data of viva-voce examination
 Mr. Radeep Krishna R, Department of Electronics and Communication Engineering	Dr. P. Sivakumar	Simulation and Optimization of 3D IC Physical Design Flow	04.10.2021

Name of the faculty member and department		Supervisor	Thesis title	Data of viva-voce examination
Mr. Velmurugan S P, Department of Electronics and Communication Engineering		Dr. P. Sivakumar	Design and Development of Efficient System for Brain Tumor Classification Using Multimodal Fusion Approach Based on Image Transformations and Optimization Techniques	06.10.2021
	Mr. K. Muthamil Sudar, Department of Computer Science and Engineering	Dr. P. Deepalakshmi	Design of Intrusion Detection System for Software Defined Networking Using Machine Learning Algorithms	01.11.2021
Mr. G. Karthy, Department of Electronics and Communication Engineering		Dr. P. Sivakumar	Optimized Test Pattern Generation and Built-In Redundancy Analysis Schemes for Memories	04.12.2021
	Mr. Jagan S, Department of Civil Engineering	Dr. T.R. Neelakantan	Properties of Concrete Prepared with Bio-Deposited Recycled Aggregates	04.12.2021
K. Mukilan, Department of Civil Engineering		Dr. C. Ramesh Babu	Development of expert system for construction claim process	31.12.2021

FACULTY AWARDS

No	Faculty Name	Awarding Agency	Agency name	Award name	Date
1.	Dr. P. Devendran	International body	Elsevier	Journal reviewer in Chemical Physics Letter	04.10.2021
2.	Dr. V. Yegnanarayanan	private organization	International Multidisciplinary Research Foundation	Indo Asian Research Excellence Award 2021	05.10.2021
3.	Dr. S. Shantkriti	Private	IMRF Institute of	Indo Asian – Best Researcher	05.10.2021

No	Faculty Name	Awarding Agency	Agency name	Award name	Date
		Organization	Higher Education & Research, India	Award 2021 in Environmental Biotechnology	
4.	Dr. S. Rani	Central Government	The Institute of Company Secretaries of India	Foundation Programme Examination in Company Secretaries of India	13.10.2021
5.	Dr. P. Selvarengan	International Body	Brazilian Journal of Physics	Reviewer	16.10.2021
6.	Dr. S. Rani	State Government	Tamil Nadu Mercantile Bank Ltd	TMB Gamesville Trophy	24.10.2021
7.	Dr. S. Shantkriti	Private Organization	Institute for Researchers (InRes), India	InRes Young Scientist Award 2021	25.10.2021
8.	Dr. P. Devendran	private organization	AMET University	Best Oral Presentation Award	29.10.2021
9.	Dr. S. Rani	State Government	Tamil Nādu Youth Sports Council (Government of India Ministry of Youth Affairs and Sports)	Selected in 2nd International Indo-Nepal youth Sports Events	01.11.2021
10.	Dr. S. Shantkriti	Central Government	Project MANAV- The Human Atlas Initiative	Faculty Coordinator	23.11.2021
11.	Dr. T. Theiva Santhi	International Body	Iranian Polymer Journal	Reviewer	09.12.2021
12.	Dr. S. Ramkumar	State Government	Bharathiar University	Board of Examiner	15.12.2021
13.	Dr. P. Selvarengan	International Body	Environmental Pollution	Reviewer	30.12.2021
14.	Mr. G. Ramesh	Private Organization	Galgotias College of Engineering & Technology (GCET)	International Conference Session Chair	30.12.2021
15.	Mr. P. Manikandan	Private Organization	Galgotias College of Engineering & Technology (GCET)	International Conference Session Chair	30.12.2021
16.	Dr. K. Pandiaraj	Private Organization	Galgotias College of Engineering and Technology	Conference Session Chair	30.12.2021

PATENT

No	Department	Patent Title	Patent Members Name	Application Number	Filling Date
1.	Electronics Communication Engineering	Smart Socket- A Technology Enabler to Prevent Electrical Hazards in Household Applications	Dr. V. Muneeswaran, Dr. Kalpana Murugan	202141023148	06.11.2021

No	Department	Patent Title	Patent Members Name	Application Number	Filing Date
2.	Electronics Communication Engineering	Fall Detection and Avoidance System for Oldsters	Dr. Kalpana Murugan, Dr. V. Muneeswaran.	202141022991	06.11.2021
3.	Biotechnology	Influence of IoT in Microbial Fuel Cell for Mass Production of Electricity	Ms. V. Devatarika, Dr. G. Puthilibai, Dr. S. Chitradevi, Dr. S. Shantkriti, Dr. G. Thiyagarajan, Dr. T. B Sivakumar, Mr. K. Manikandan, Mrs. S. Revathi, Mr. V. Gokul	202141058303	31.12.2021

HIGH IMPACT FACTOR PUBLICATION



Dr. S. Saravana Kumar, Department of Physics, published a research paper titled' **Metal halide perovskite quantum dots for amphoteric bio-imaging**' in the Coordination Chemistry Reviews which has an Impact Factor of 22.315.

5. MISCELLANEOUS

IQAC MEETING

The IQAC first quarter meeting was held on 25.11.2021. The external members Dr. N. Alagumurthi, Professor & Head, Mechanical Engineering, Pondicherry Engineering College, Dr. K. Janakiraman, Head, OBO Betterman, Chennai, and Dr. Arun Rajagopal, Director (Data Science), Evive Software Analytics, Bengaluru attended the same and offered their valuable suggestions.

Few key points are:

- Members advised to give rating for the KPI.
- Members suggested to attract more students from other states and abroad as well as by modernizing the infrastructure.
- Members expressed the importance to inculcate the NEP based practices in the university.
- Members suggested to sign MoU with reputed Industries for augmenting more instrumentation facilities in the campus.

SCOPUS LISTED PUBLICATIONS DURING OCTOBER- DECEMBER 2021

No	Authors	Title	Year	Source title	Volume	Issue	Art. No./ D.O.I	Page start	Page end
1.	Sornalakshmi M., Balamurali S., Venkatesulu M., Krishnan M.N., Ramasamy L.K., Kadry S., Lim S.	An efficient apriori algorithm for frequent pattern mining using mapreduce in healthcare data	2021	Bulletin of Electrical Engineering and Informatics	10	1		390	403
2.	Sambandamoorthy S., Narayanan V., Chinnapandi L.B.M., Aziz A.	Impact of fiber length and surface modification on the acoustic behaviour of jute fiber	2021	Applied Acoustics	173		107677		
3.	Shanmugam V., Das O., Babu K., Marimuthu U., Veerasimman A., Johnson D.J., Neisiany R.E., Hedenqvist M.S., Ramakrishna S., Berto F.	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials	2021	International Journal of Fatigue	143		106007		
4.	Muthulakshmi L., Anand Kumar B., Rajasekar A., Annaraj J., Pruncu C.I.	The benefits of k-Carrageenan-gelatin hybrid composite coating on the medical grade stainless steel (SS304) used as anticorrosive barrier	2021	Materials Chemistry and Physics	258		123909		
5.	Sivamani J., Sulaiman M.	Behavior of Zero-Cement Mortar: An Experimental Study	2021	Lecture Notes in Civil Engineering	78			277	287
6.	Ariffa Parakath A., Neelakantan T.R.	Analysis of Resilience Performance of Water Distribution Network	2021	Lecture Notes in Civil Engineering	78			261	267

No	Authors	Title	Year	Source title	Volume	Issue	Art. No./ D.O.I	Page start	Page end
7.	Parvathy V.S., Pothiraj S., Sampson J.	Automated Internet of Medical Things (IoMT) Based Healthcare Monitoring System	2021	Studies in Systems, Decision and Control	311			117	128
8.	Palaniappan M., Milton J.C., Ramasubramania m S.S., Palvannan H., Sundararaj H.	Influence of Steel Fibers on Enhancing the Toughness Property on Concrete: A Simplified Approach	2021	Lecture Notes in Civil Engineering	78			269	275
9.	Ani Brown Mary N., Robert Singh A., Athisayamani S.	Classification of banana leaf diseases using enhanced gabor feature descriptor	2021	Lecture Notes in Networks and Systems	145			229	242
10.	Robert Singh A., Athisayamani S., Alphonse A.S.	Enhanced speeded up robust feature with bag of grapheme (esurf-bog) for tamil palm leaf character recognition	2021	Lecture Notes in Networks and Systems	145			27	39
11.	Athisayamani S., Robert Singh A., Sivanesh Kumar A.	Recurrent neural network-based character recognition system for tamil palm leaf manuscript using stroke zoning	2021	Lecture Notes in Networks and Systems	145			165	176
12.	Ranjithkumar R., Arasi S.E., Devendran P., Nallamuthu N., Arivarasan A., Lakshmanan P., Sudhahar S., Kumar M.K.	Investigations on structural, morphological and electrochemical properties of Co(OH) ₂ nanosheets embedded carbon nanotubes for supercapacitor applications	2020	Diamond and Related Materials	110		1081 20		
13.	Kadakadiyavar S., Ramrao N., Singh M.K.	Efficient mixture control chart pattern recognition using adaptive RBF neural network	2020	International Journal of Information Technology (Singapore)	12	4		127 1	1280

No	Authors	Title	Year	Source title	Volume	Issue	Art. No./ D.O.I	Page start	Page end
14.	Ram Kumar Pandian S., Arunachalam S., Deepak V., Kunjiappan S., Sundar K.	Targeting complement cascade: an alternative strategy for COVID-19	2020	3 Biotech	10	11	479		
15.	Sudharsan R.R., Deny J., Muthukumar E., Selvi S.C.	Design, implementation, and estimation of MFCV for 4-different position of human body using FPGA	2020	Microelectronics Journal	105		1048 90		
16.	Ramalingam S.	Effect of additives on structure and properties of electrodeposited nanocrystalline copper	2020	Rasayan Journal of Chemistry	13	4		214 3	2149
17.	Qarnain S.S., Sattanathan M., Sankaranarayanan B.	Analysis of social inequality factors in implementation of building energy conservation policies using fuzzyanalytical hierarchy process methodology	2020	International Journal of Sustainable Energy Planning and Management	29			153	170
18.	Sankaran S., PallikondaRajasekaran M.	Design of prosthesis by sustainable aluminium 2024-t4 material under various load conditions using tetrahedral mesh	2020	Journal of Green Engineering	10	9		532 2	5339
19.	Senthil T.	A data integrity preservation model to ensure security in green cloud computing platform	2020	Journal of Green Engineering	10	9		646 8	6476
20.	Ganesan M., Paranthaman S.	Studies on the structure and conformational flexibility of secondary structures in amyloid beta-A quantum chemical study	2020	Journal of Theoretical and Computational Chemistry	19	6	2050 014		
21.	Kumar R.K., Diwakaran S., Thilagaraj M.	Reactive power control of modern type high effective phase grid-tied photovoltaic network inverter	2020	Journal of Green Engineering	10	9		487 4	4884

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22.	Dhanalakshmi K.S., Kumar S.D., Padmavathi R.A., Ramesh L., Kumar M.S.	Detection of change over land use and land cover in Coimbatore urban area	2020	Journal of Green Engineering	10	9		453 0	4542
23.	Sivapragasam C., Malathy A., Ishwarya D., Saravanan P., Balamurali S.	Modelling the elements of flash flood hydrograph using genetic programming	2020	Indian Journal of Geo-Marine Sciences	49	6		103 1	1038
24.	Jiji A.C., Nagaraj R.	A novel imaging system for underwater haze enhancement	2020	International Journal of Information Technology (Singapore)	12	1		85	90
25.	Ganesh A.C., Muthukannan M.	Development of high performance sustainable optimized fiber reinforced geopolymer concrete and prediction of compressive strength	2020	Journal of Cleaner Production			1245 43		
26.	Anisha M., Sindhuja J.F.F., Elliot C.J., Rani R.L., Devi J.D., Monal K., Chezhiyan P., Majeeth A.A., Shalini U.	Automated assistive health care system for disabled patients utilizing internet of things	2020	Journal of Engineering Science and Technology Review	13	4	213	206	213

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27.	Revathy R., JainulFathima A., Balamurali S., Murugaboopathi G.	Development of hybrid model for improving the prediction of dengue-human protein interaction for anti-viral drug discovery	2020	International Journal of Intelligent Information and Database Systems	13	44288		479	490
28.	Siva V., Murugan A., Shameem A., Bahadur S.A.	One-step hydrothermal synthesis of transition metal oxide electrode material for energy storage applications	2020	Journal of Materials Science: Materials in Electronics	-	-	-	-	-
29.	Suresh Kumar S., Nair A., Muthu Kumar G.P., Muthu Krishnan V., Ramesh Kanna M.	Fabrication and investigation of Al ₂ O ₃ -B ₄ C-TiC hybrid metal matrix composites using laser beam machining	2020	INCAS Bulletin	12	3		229	234
30.	Karthik K., Jeyakumar S., Sebastin J.S.	Numerical prediction of flow noise levels on towed sonar array	2020	Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment	-	-	-	-	-
31.	Narayanan S.S., Murugaboopathi G.	Prevention of rushing attack in MANET using threshold-based approach	2020	International Journal of Internet Technology and Secured Transactions	10	5		576	584

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32.	Murugan K., Jeyamohanaropa n K.M.K., Navaneethanath M., Prakash M., Ajithkumar R.	Computerized Smart Luminous System using Passive Infrared by Motion Recognition (CSLS-WIFI)	2020	Proceedings of the 4th International Conference on Inventive Systems and Control, ICISC 2020			9171 201	291	296
33.	Sreeraj P., ThirumalaiKumar an S., Suresh Kumar S., Uthayakumar M., Pethuraj M.	Measurement of microchannels produced in AA6351/rutile composite by wire-edm	2020	Surface Review and Letters			2050 034		
34.	Nair R.K.R., Pothiraj S., Nagarajan R.	P2CTS-3D IC: An efficient placement aware partitioning and clock tree synthesis in 3d-integrated circuits	2020	Applied Science and Engineering Progress	13	4		1	17
35.	Arumugam S., Bagga J.S.	Graphoidal graphs and graphoidal digraphs: a generalization of line graphs	2020	AKCE International Journal of Graphs and Combinatorics	-	-	-	-	-
36.	Perumal A., Azhagurajan A., Prithvirajan R., Kumar S.S.	Experimental Investigation and Optimization of Process Parameters in Ti α (6242) Alpha β Alloy Using Electrical Discharge Machining	2020	Journal of Inorganic and Organometallic Polymers and Materials	-	-	-	-	-
37.	Kavimani V., Gopal P.M., Sumesh K.R., Kumar N.V.	Multi Response Optimization on Machinability of SiC Waste Fillers Reinforced Polymer Matrix Composite Using Taguchi's Coupled Grey Relational Analysis	2020	Silicon	-	-	-	-	-

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38.	Vivek C.M., Ramkumar P.	Evaluation of course outcome attainment of engineering course with traditional, blended and flipped classroom approaches	2020	Education and Information Technologies	-	-	-	-	-
39.	Sivapragasam C., Natarajan N.	Comparison of trends in apparent and air temperature for climate change assessment	2020	Modeling Earth Systems and Environment	-	-	-	-	-
40.	Biatchâ™ M.P., Bagga J.S., Arumugam S.	A survey and a new class of graceful unicylic graphs	2020	AKCE International Journal of Graphs and Combinatorics	-	-	-	-	-
41.	Hemalatha J., Kavitha Devi M.K., Geetha S.	Effective image stego intrusion detection system using statistical footprints of the steganogram and fusion of classifiers	2020	International Journal of Computer Aided Engineering and Technology	13	3		325	340
42.	Sivakumar S., Adam Khan M., Muralidharan B.	Studies on surface quality of stainless steel implant material while machining with WEDM process	2020	International Journal of Machining and Machinability of Materials	22	5		374	385
43.	Muthulakshmi L., Mathangi J.B., Suryasankar R.P., Padmanaban V.C., Helen Kalavathy M., Sanjay M.R., Siengchin S.	Extraction of Polymeric Biofloculant from Enterobacter sp. and Adsorptive Kinetic Studies on Industrial Dye Removal Applications	2020	Journal of Polymers and the Environment	-	-	-	-	-

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44.	SenthilMuthu Kumar T., Senthilkumar K., Ratanit M., Rajini N., Chanunpanich N., Hariram N., Pornwongthong P., Siengchin S.	Influence of Titanium Dioxide Particles on the Filtration of 1,4-Dioxane and Antibacterial Properties of Electrospun Cellulose Acetate and Polyvinylidene Fluoride Nanofibrous Membranes	2020	Journal of Polymers and the Environment	-	-	-	-	-
45.	Senthilkumar K., Ungtrakul T., Chandrasekar M., SenthilMuthu Kumar T., Rajini N., Siengchin S., Pulikkalparambil H., Parameswaranpillai J., Ayrilmis N.	Performance of Sisal/Hemp Bio-based Epoxy Composites Under Accelerated Weathering	2020	Journal of Polymers and the Environment	-	-	-	-	-
46.	Wang S.-H., Govindaraj V.V., GÃ³rriz J.M., Zhang X., Zhang Y.-D.	COVID-19 classification by FGCNet with deep feature fusion from graph convolutional network and convolutional neural network	2021	Information Fusion	67			208	229
47.	Shanmugam V., Das O., Babu K., Marimuthu U., Veerasimman A., Johnson D.J., Neisiany R.E., Hedenqvist M.S., Ramakrishna S., Berto F.	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials	2021	International Journal of Fatigue	143		106007		

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48.	Sivamani J., Sulaiman M.	Behavior of Zero-Cement Mortar: An Experimental Study	2021	Lecture Notes in Civil Engineering	78			277	287
49.	AriffaParakath A., Neelakantan T.R.	Analysis of Resilience Performance of Water Distribution Network	2021	Lecture Notes in Civil Engineering	78			261	267
50.	Palaniappan M., Milton J.C., Ramasubramania m S.S., Palvannan H., Sundararaj H.	Influence of Steel Fibers on Enhancing the Toughness Property on Concrete: A Simplified Approach	2021	Lecture Notes in Civil Engineering	78			269	275
51.	VinothBabu K., Suresh Kumar S., Ganesan P., Marichamy S., Madan D.	Fabrication, Characterization and Parametric Optimization on Drilling of Heat-Treated A356-SiCp Composites	2021	Lecture Notes in Mechanical Engineering	23			827	838
52.	Suriyasekeran K., Santhanamahalingam S., Duraisamy M.	Algorithms for Diagnosis of Diabetic Retinopathy and Diabetic Macula Edema- A Review	2021	Advances in Experimental Medicine and Biology	1307			357	373
53.	Ranjithkumar R., Arasi S.E., Devendran P., Nallamuthu N., Lakshmanan P., Sudhahar S., Arivarasan A., Kumar M.K.	Investigations and fabrication of Ni(OH) ₂ encapsulated carbon nanotubes nanocomposites based asymmetrical hybrid electrochemical supercapacitor	2020	Journal of Energy Storage	32		1019 34		
54.	Siva V., Shameem A., Murugan A., Athimoolam S., Vinitha G., Bahadur S.A.	Structural, thermal and electro-optical properties of guanidine based Metal-Organic Framework (MOF)	2020	Chinese Journal of Physics	68			764	777

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55.	Usha G., Prakash R., Karpagalakshmi K., Ramalakshmi S., Piramuthu L., Yang C., Selvapalam N.	Supramolecular Assembly of Acriflavine on Graphene Oxide for the Sensing of Adenosine Phosphates	2020	Analytical sciences : the international journal of the Japan Society for Analytical Chemistry	36	11		1365	1369
56.	Yang E., Parvathy V.S., PandiSelvi P., Shankar K., Seo C., Joshi G.P., Yi O.	Privacy preservation in edge consumer electronics by combining anomaly detection with dynamic attribute-based re-encryption	2020	Mathematics	8	11	1871	1	13
57.	Arumugam S., Bagga J.	Preface	2020	AKCE International Journal of Graphs and Combinatorics	17	2		637	
58.	Jayakumar P., Padmanabhan S., Suthendran K., Kumar Y.N., Sujith M.	Identification and Analysis of Blood Group with Digital Microscope Using Image Processing	2020	IOP Conference Series: Materials Science and Engineering	923	1	12013		
59.	Mohan M., Shanmugaraja P., Krishnan R., Rajagopalan K., Sundar K.	In silico prediction of b-cell epitopes of dengue virus - A reverse vaccinology approach	2020	Journal of Applied Pharmaceutical Science	10	10		77	85
60.	Sankaran S., PallikondaRajasekaran M.	Design of prosthesis by sustainable aluminium 2024-t4 material under various load conditions using tetrahedral mesh	2020	Journal of Green Engineering	10	9		5322	5339

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61.	Senthil T.	A data integrity preservation model to ensure security in green cloud computing platform	2020	Journal of Green Engineering	10	9		646 8	6476
62.	Kumar R.K., Diwakaran S., Thilagaraj M.	Reactive power control of modern type high effective phase grid-tied photovoltaic network inverter	2020	Journal of Green Engineering	10	9		487 4	4884
63.	Dhanalakshmi K.S., Kumar S.D., Padmavathi R.A., Ramesh L., Kumar M.S.	Detection of change over land use and land cover in Coimbatore urban area	2020	Journal of Green Engineering	10	9		453 0	4542
64.	Rani G.E., Reddy A.T.V., Vardhan V.K., Harsha A.S.S., Sakthimohan M.	Machine learning based cibil verification system	2020	Proceedings of the 3rd International Conference on Smart Systems and Inventive Technology, ICSSIT 2020			9214 195	780	782
65.	Nagaraj P., Rajasekaran M.P., Muneeswaran V., Sudar K.M., Gokul K.	VLSI implementation of image compression using TSA optimized discrete wavelet transform techniques	2020	Proceedings of the 3rd International Conference on Smart Systems and Inventive Technology, ICSSIT 2020			9214 220	667	670

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66.	Brintha N.C., Jappes J.T.W., Vignesh M.S.	Managing & detecting fishy nodes in MANET using cloud concepts	2020	Proceedings of the 3rd International Conference on Smart Systems and Inventive Technology, ICSSIT 2020			9214 093	166	169
67.	Kartheeban K, Hemalatha J., Priya C., Venkatesulu M.	Secure multicast group communications for IoT applications using WSN	2020	Proceedings of the 3rd International Conference on Smart Systems and Inventive Technology, ICSSIT 2020			9214 238	242	248
68.	Devi Parameswari C., Mandadi V.	Healthcare data protection based on blockchain using solidity	2020	Proceedings of the World Conference on Smart Trends in Systems, Security and Sustainability, WS4 2020			9210 296	577	580
69.	Jothi M.A., Vanitha D., Bahadur S.A., Nallamuthu N.	Proton conducting polymer electrolyte based on cornstarch, PVP, and NH ₄ Br for energy storage applications	2020	Ionics	-	-	-	-	-
70.	Jeyalakshmi P.	Domination in signed graphs	2020	Discrete Mathematics, Algorithms and Applications			2050 094		

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71.	Qarnain S.S., Muthuvel S., Sankaranarayanan B.	Analysis of Energy Conservation Factors in Buildings Using Interpretive Structural Modeling Methodology: An Indian Perspective	2020	Journal of The Institution of Engineers (India): Series A	-	-	-	-	-
72.	EzhilArasi S., Ranjithkumar R., Devendran P., Krishnakumar M., Arivarasan A.	Investigation on electrochemical behaviour of manganese vanadate nanopebbles as potential electrode material for supercapacitors	2020	Journal of Alloys and Compounds			1576 28		
73.	Jahangeer G.S.B., Rajkumar T.D.	Early detection of breast cancer using hybrid of series network and VGG-16	2020	Multimedia Tools and Applications	-	-	-	-	-
74.	Gandhimathi L., Murugaboopathi G.	Mobile Malicious Node Detection Using Mobile Agent in Cluster-Based Wireless Sensor Networks	2020	Wireless Personal Communications	-	-	-	-	-
75.	Alaguselvi R., Murugan K.	Performance analysis of automated lesion detection of diabetic retinopathy using morphological operation	2020	Signal, Image and Video Processing	-	-	-	-	-
76.	Leeladevi K., Vinoth Kumar J., Arunpandian M., Thiruppathi M., Nagarajan E.R.	Investigation on photocatalytic degradation of hazardous chloramphenicol drug and amaranth dye by SmVO ₄ decorated g-C ₃ N ₄ nanocomposites	2020	Materials Science in Semiconductor Processing			1055 63		
77.	Kavimani V., Gopal P.M., Sumesh K.R., Kumar N.V.	Multi Response Optimization on Machinability of SiC Waste Fillers Reinforced Polymer Matrix Composite Using Taguchi's Coupled Grey Relational Analysis	2020	Silicon	-	-	-	-	-

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78.	Alagarsamy S., Zhang Y.-D., Govindaraj V., Rajasekaran M.P., Sankaran S.	Smart identification of topographically variant anomalies in brain magnetic resonance imaging using a fish school based fuzzy clustering approach	2020	IEEE Transactions on Fuzzy Systems			9165 123		
79.	Murugesan P., Brunda D.K., Moses J.A., Anandharamakrishnan C.	Photolytic and photocatalytic detoxification of mycotoxins in foods	2020	Food Control			1077 48		
80.	Sboui M., Cortés-Reyes M., Swaminathan M., Alemany L.J.	Eco-friendly hybrid Paper "AgBr/TiO ₂ for efficient photocatalytic aerobic mineralization of ethanol	2020	Chemosphere			1287 03		
81.	Krishnan S., Vaithyasubramanian S., Maragatharajan M.	SAED: Self-adaptive Error Detection Automation for Leveraging Computational Efficiency of HCI Systems	2020	Wireless Personal Communications	-	-	-	-	-
82.	Kumar T.S.M., Chandrasekar M., Senthilkumar K., Ilyas R.A., Sapuan S.M., Hariram N., Rajulu A.V., Rajini N., Siengchin S.	Characterization, Thermal and Antimicrobial Properties of Hybrid Cellulose Nanocomposite Films with in-Situ Generated Copper Nanoparticles in Tamarindusindica Nut Powder	2020	Journal of Polymers and the Environment	-	-	-	-	-
83.	Muthulakshmi L., Mathangi J.B., Suryasankar R.P., Padmanaban V.C., Helen Kalavathy M., Sanjay M.R., Siengchin S.	Extraction of Polymeric Biofloculant from Enterobacter sp. and Adsorptive Kinetic Studies on Industrial Dye Removal Applications	2020	Journal of Polymers and the Environment	-	-	-	-	-

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84.	Nguyen G.N., Le Viet N.H., Devaraj A.F.S., Gobi R., Shankar K.	Blockchain enabled energy efficient red deer algorithm based clustering protocol for pervasive wireless sensor networks	2020	Sustainable Computing: Informatics and Systems			1004 64		
85.	Pandian S.R.K., Pavadai P., Vellaisamy S., Ravishankar V., Palanisamy P., Sundar L.M., Chandramohan V., Sankaranarayanan M., Panneerselvam T., Kunjiappan S.	Formulation and evaluation of rutin-loaded solid lipid nanoparticles for the treatment of brain tumor	2020	Naunyn-Schmiedeberg's Archives of Pharmacology	-	-	-	-	-
86.	Nagaprasad N., Stalin B., Vignesh V., Ravichandran M., Rajini N., Ismail S.O.	Applicability of cellulosic-based Polyalthialongigolia seed filler reinforced vinyl ester biocomposites on tribological performance	2020	Polymer Composites	-	-	-	-	-
87.	Suriyakalaa U., Ramachandran R., Doulathunnisa J.A., Aseervatham S.B., Sankarganesh D., Kamalakkannan S., Kadalmani B., Angayarkanni J., Akbarsha M.A., Achiraman S.	Upregulation of Cyp19a1 and PPAR- α in ovarian steroidogenic pathway by Ficus religiosa: A potential cure for polycystic ovary syndrome	2020	Journal of Ethnopharmacology			1135 40		

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88.	Poomarimuthukumar G., KavinBhaarathi A.G., Mohanaram R., RubanPrabhu G., Siva I.	Investigation on the effect of erodent velocity on the erosion of 3/2 BLARE laminates	2019	Materials Today: Proceedings	33			946	948
89.	Siva I., Sangaran D.K., Praveen Balan P.R., Rajesh Kanna R., Siddharth P., Sankar I.	Modal analysis on the additive manufactured robotic segments: Effect of printing densities on the vibrational properties	2019	Materials Today: Proceedings	33			1133	1136
90.	Siva I., Bharathi M., Krishnaveni C., Priyanka M., Sankar I.	Frictional response of functionally graded 3/2 natural rubber based lead-bismuth eutectic alloy metal rubber laminates	2019	Materials Today: Proceedings	33			960	963
91.	Balamurugan P., Pethuraj M., Uthayakumar M., Kushwaha A.P., Naidu K.G., Chitrada S.K.	Electrical discharge machining of Al-sillimanite composites	2019	Materials Today: Proceedings	33			1100	1103
92.	Revathy M.S., Suman R., Jayram N.D., Geetha D., Chitravel T.	Multifarious properties of BunsenitenanosphereNiO using coprecipitation method	2019	Materials Today: Proceedings	33			1165	1174
93.	GurusamyPandian P.G., Ashifa K.M.	Analysis and design of fire resistance cloth in fire works industries	2019	Materials Today: Proceedings	33			1032	1037
94.	Premkumar T., Siva I., Amico S.C.	Inter and intralayer basalt hybrid effects on the static and vibrational behaviors of Brazilian curauÃ;/basalt hybrid composite	2019	Materials Today: Proceedings	33			1212	1215

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95.	SethuRamalingam P., Mayandi K., Srinivasan T., Jerin Leno I., Ravi R., Suresh G.	A study on E-Glass fiber reinforced interpenetrating polymer network (vinylester/polyurethane) laminate's flexural analysis	2019	Materials Today: Proceedings	33			854	858
96.	Murugan A., Siva V., Shameem A.S., Bahadur S.A.	Optimization of adsorption and reaction time of SILAR deposited Cu ₂ ZnSnS ₄ thin films: Structural, optical and electrochemical performance	2021	Journal of Alloys and Compounds	856		1580 55		
97.	M A., S Kumar S., E Nithila E., M B.	Detection of Fetal Cardiac Anomaly from Composite Abdominal Electrocardiogram	2021	Biomedical Signal Processing and Control	65		1023 08		
98.	Muthulakshmi L., Pavithra U., Sivaranjani V., Balasubramanian N., Sakthivel K.M., Pruncu C.I.	A novel Ag/carrageenan-gelatin hybrid hydrogel nanocomposite and its biological applications: Preparation and characterization	2021	Journal of the Mechanical Behavior of Biomedical Materials	115		1042 57		

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99.	Kunjiappan S., Sankaranarayanan M., Karan Kumar B., Pavadai P., Babkiewicz E., Maszczyk P., Glodkowska-Mrowka E., Arunachalam S., Ram Kumar Pandian S., Ravishankar V., Baskararaj S., Vellaichamy S., Arulmani L., Panneerselvam T.	Capsaicin-loaded solid lipid nanoparticles: design, biodistribution, in silico modeling and in vitro cytotoxicity evaluation	2021	Nanotechnology	32	9	95101		
100.	Sathiyamoorthi V., Ilavarasi A.K., Murugeswari K., Thouheed Ahmed S., Aruna Devi B., Kalipindi M.	A deep convolutional neural network based computer aided diagnosis system for the prediction of Alzheimer's disease in MRI images	2021	Measurement: Journal of the International Measurement Confederation	171		108838		
101.	Meyyappan P., Rajasekaran M.P., Soroopan R.S.	An Experimental and Analytical Investigation on the Characteristics of Light Weight Concrete Using Waste Burnt Ash and Pumice Stones	2021	Lecture Notes in Civil Engineering	97			543	551
102	Shilaja C.	A Meta-heuristic Optimization Algorithm for Solving Renewable Energy System	2021	Advances in Intelligent Systems and Computing	1248			449	459

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104.	Meyyappan P., Carmichael M.J.	An Effective Replacement of Granite and Marble Powder on Cement Mortar Subjected to Chloride Ion Penetration Test	2021	Lecture Notes in Civil Engineering	97			533	541
105.	Meyyappan P., Carmichael M.J.	A Comparative Investigation on the Utilization of Marble Dust and Granite Dust in the Cement Mortar Against the Sulphate Resistance	2021	Lecture Notes in Civil Engineering	97			523	532
106.	Sivamani J., Neelakantan T.R., Saravana Kumar P., MugeshKanna C., Vignesh Harish H., Akash M.R.	Efficient Utilization of Recycled Concrete Aggregates for Structural ApplicationsâAn Experimental Study	2021	Lecture Notes in Civil Engineering	97			567	579
107.	Abraham R., Neelakantan T.R., Chokkalingam R.B., John E.	Blended Cement Using Calcined Clay and Limestone for Sustainable DevelopmentâA Review	2021	Lecture Notes in Civil Engineering	97			701	710

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109.	John S.S., Saicharan R., Maheswaran B.S.	Experimental investigation on electromagnetic launcher technique	2020	AIP Conference Proceedings	2311		3001 7		
110.	Baskaran S.M., Prasanna B.T., Murugan R.T., Balamurugan P., Sebastin J.S.	Design and fabrication of portable groundnut shell extraction machine	2020	AIP Conference Proceedings	2311		5000 4		
111.	Sivaramakarthykeyan R., Iniyaval S., Lim W.-M., Hii L.-W., Mai C.-W., Ramalingan C.	Pyrazolylphenanthroimidazoleheterocycles: Synthesis, biological and molecular docking studies	2020	New Journal of Chemistry	44	45		196 12	1962 2
112.	Ramaraj R., Dharmaraj G., Srinivasan S., Balasubramanian S., Periyasamy M., Bekiroglu K.	Real-time extremum seeking controller for brushless DC hub motors in electric vehicles	2020	IET Electric Power Applications	14	12		243 8	2449

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114.	Karuppiyah G., Kuttalam K.C., Palaniappan M., Santulli C., Palanisamy S.	Multiobjective Optimization of Fabrication Parameters of Jute Fiber/Polyester Composites with Egg Shell Powder and Nanoclay Filler	2020	Molecules (Basel, Switzerland)	25	23			
115.	Sivapragasam C., Ajith S., Arumugaprabu V.	Ascertaining the Suitability of A Worker for Safer Execution of A Construction Task: A Genetic Programming Based Modelling Approach	2020	IOP Conference Series: Materials Science and Engineering	955	1	12015		
116.	Ajith S., Sivapragasam C., Arumugaprabu V.	Comparison of Modelling Tools in Assessing Safety Performance of Construction Site	2020	IOP Conference Series: Materials Science and Engineering	955	1	12016		
117.	Priya P.K., Vanitha S., Meyyappan P.	Characteristic and microstructural study on an alternate material in brick manufacturing	2020	IOP Conference Series: Materials Science and Engineering	955	1	12038		
118.	Vanitha S.	Performance of different types of constructed wetlands for treating wastewater in short time horizon	2020	IOP Conference Series: Materials Science and Engineering	955	1	12095		
119.	Priya P.K., Vanitha S., Meyyappan P.	Utilization of waste for building materials- A review	2020	IOP Conference Series: Materials Science and Engineering	955	1	12048		

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