

CSIR-CLRI Publications for the period MARCH 2020
(Indexed in SCI-Expanded)

MARCH 2020

Sl. No.	AUTHORS	TITLE	SOURCE	PD*	PY*	VL*	IS*	BP*	EP*	DOI*
1	Elisa, DDP; Ganesan, VV	Switch-on effect on conformation-specific arylamine-DNA adduct by cyclometalated Ir(III) complexes	JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY	MAR	2020	25	2	305	310	10.1007/s00775-020-01762-7
2	Kumar, CS; Thangam, R; Mary, SA; Kannan, PR; Arun, G; Madhan, B	Targeted delivery and apoptosis induction of trans-resveratrol-ferulic acid loaded chitosan coated folic acid conjugate solid lipid nanoparticles in colon cancer cells	CARBOHYDRATE POLYMERS	1-Mar	2020	231				10.1016/j.carbpol.2019.115682
3	Novanna, M; Kannadasan, S; Shanmugam, P	Microwave assisted synthesis and photophysical properties of blue emissive 2-amino-3-carboxamide-1,1'-biaryls and 4-(arylamino)-[1,1'-biphenyl]-3-carboxamides via Suzuki and Chan-Evans-Lam coupling	DYES AND PIGMENTS	MAR	2020	174				10.1016/j.dyepig.2019.108015

4	Vedhanayagam, M; Anandasadagopan, S; Nair, BU; Sreeram, KJ	Polymethyl methacrylate (PMMA) grafted collagen scaffold reinforced by PdO-TiO ₂ nanocomposites	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	MAR	2020	108				10.1016/j.msec.2019.110378
5	Indrakumar, J; Korrapati, PS	Steering Efficacy of Nano Molybdenum Towards Cancer: Mechanism of Action	BIOLOGICAL TRACE ELEMENT RESEARCH	MAR	2020	194	1	121	134	10.1007/s12011-019-01742-2
6	Madhumitha, D; Vaidyanathan, VG; Dhathathreyan, A	Plasticity or elasticity? Relating elastic moduli with secondary structural features of mixed films of polypeptides at air/fluid and fluid/solid interfaces	BIOPHYSICAL CHEMISTRY	MAR	2020	258				10.1016/j.bpc.2020.106329
7	Prabhakaran, S; Krishnaraj, V; Sharma, S; Senthilkumar, M; Jegathishkumar, R; Zitoune, R	Experimental study on thermal and morphological analyses of green composite sandwich made of flax and agglomerated cork	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	MAR	2020	139	5	3003	3012	10.1007/s10973-019-08691-x
8	Brindha, J; Ramudu, KN; Balamurali, MM	An efficient single pot DNA recombination method for protein library generation	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	1-Mar	2020	146		661	667	10.1016/j.ijbiomac.2019.12.191
9	Ramya, KR; Thangam, R; Madhan, B	Comparative analysis of the chemical treatments used in keratin extraction from red sheep's hair and the cell viability evaluations of this keratin for tissue	PROCESS BIOCHEMISTRY	MAR	2020	90		223	232	10.1016/j.procbio.2019.11.015

		engineering applications								
10	Sharma, S; Singh, J; Kumar, H; Sharma, A; Aggarwal, V; Gill, AS; Jayarambabu, N; Kailasa, S; Rao, KV	Utilization of rapid prototyping technology for the fabrication of an orthopedic shoe inserts for foot pain relieve using thermo-softening viscoelastic polymers: A novel experimental approach	MEASUREMENT & CONTROL	MAR	2020	53	4-Mar	519	530	10.1177/0020294019887194
11	Arivalagan, M; Panda, RC; Kumar, PS	Mathematical modelling and simulation for decomposition of agro-herbicide in accelerated reaction calorimeter to avoid water pollution	DESALINATION AND WATER TREATMENT	MAR	2020	179		92	97	10.5004/dwt.2020.25046
12	Mozhiarasi, V; Weichgrebe, D; Srinivasan, SV	Enhancement of Methane Production from Vegetable, Fruit and Flower Market Wastes Using Extrusion as Pretreatment and Kinetic Modeling	WATER AIR AND SOIL POLLUTION	10-Mar	2020	231	3	126		10.1007/s11270-020-04469-2
13	Devi, MV; Sobhana, SSL; Shiny, PJ; Ramanathan, G; Felciya, SJG; Poornima, V; Thennarasu, S; Fardim, P; Sivagnanam, UT	Durable nanofibrous matrices augmented with hydrotalcite-like compounds for cutaneous regeneration of burn wounds	APPLIED CLAY SCIENCE	15-Mar	2020	187				10.1016/j.clay.2020.105476

14	Inbasekar, C; Fathima, NN	Collagen stabilization using ionic liquid functionalised cerium oxide nanoparticle	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	15-Mar	2020	147		24	28	10.1016/j.ijbiomac.2019.12.271
15	Dayanidhi, DPE; Thangavel, N; Ganesan, VV	Selective Recognition of Conformation-Specific Arylamine-DNA Adduct in Frameshift Model by [Ru(phen)(2)(dppz)](2+)	CHEMICAL RESEARCH IN TOXICOLOGY	16-Mar	2020	33	3	800	805	10.1021/acs.chemrestox.9b00453
16	Ariram, N; Madhan, B	Development of bio-acceptable leather using bagasse	JOURNAL OF CLEANER PRODUCTION	20-Mar	2020	250				10.1016/j.jclepro.2019.119441
17	Kalirajan, C; Palanisamy, T	Silica microsphere-resorcinol composite embedded collagen scaffolds impart scarless healing of chronic infected burns in type-I diabetic and non-diabetic rats	BIOMATERIALS SCIENCE	21-Mar	2020	8	6	162 2	163 7	10.1039/c9bm01089k
18	Sangeetha, M; Chamundeeswari, D; Babu, CS; Rose, C; Gopal, V	Attenuation of oxidative stress in arthritic rats by ethanolic extract of Albizia procera benth bark through modulation of the expression of inflammatory cytokines	JOURNAL OF ETHNOPHARMACOLOGY	25-Mar	2020	250				10.1016/j.jep.2019.112435
19	Kavalappa, YP; Gopal, SS; Ponesakki, G	Lutein inhibits breast cancer cell growth by suppressing antioxidant and cell survival signals and induces apoptosis	JOURNAL OF CELLULAR PHYSIOLOGY	MAR	2020	236	3	179 8	180 9	10.1002/jcp.29961

20	Mohanakrishnan, AS; Easwaran, SN; Ravi, DP; Mahadevan, S	Understanding the biocalorimetric and respirometric behaviour of co-culture (R. eutropha, P. putida and A. vinelandii) in poly (3-hydroxybutyrate) batch production	BIOCHEMICAL ENGINEERING JOURNAL	15-Mar	2020	155				10.1016/j.bej.2019.107334
21	Arivalagan, M; Panda, RC; Kumar, PS	Mathematical modelling and simulation for decomposition of agro-herbicide in accelerated reaction calorimeter to avoid water pollution	DESALINATION AND WATER TREATMENT	MAR	2020	179		92	97	10.5004/dwt.2020.25046
22	Mannacharaju, M; Chittybabu, S; John, SBS; Somasundaram, S; Ganesan, S	Bio catalytic oxidation of sulphide laden wastewater from leather industry using sulfide: Quinone oxidoreductase immobilized bio reactor	BIOCATALYSIS AND BIOTRANSFORMATION	3-Mar	2020	38	2	123	137	10.1080/10242422.2019.1666107

*PD=Date of Publication; PY=Year of Publication; VL=Volume; IS=Issue; BP=Beginning Page Number; EP=Ending Page Number; DOI=Digital Object Identifier.