



# Research, Innovations and Extension

## Criterion 3

Criterion 3.2  
Research Publication and  
Awards



SREE SANKARA COLLEGE  
SANKAR NAGAR, MATTOOR  
KALADY P.O, ERNAKULAM – 683 574  
(Affiliated to MG University)

**3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years**

## Supporting Document for 3.3.1

### Links landing to Research Papers (UGC-CARE/Web of Science/Scopus Listed)

Sl. No.	Title of paper	Link to article / paper / abstract of the article
1	A simple method to fabricate metal doped TiO <sub>2</sub> nanotubes	<a href="https://doi.org/10.1016/j.chemphys.2019.04.028">https://doi.org/10.1016/j.chemphys.2019.04.028</a>
2	Novel Processing Parameters for the extraction of Cellulose Nanofibres (CNF) from Environmentally benign Pineapple Leaf fibres (PALF): Structure-Property relationships	<a href="https://doi.org/10.1016/j.ijbiomac.2019.03.134">https://doi.org/10.1016/j.ijbiomac.2019.03.134</a>
3	Physicochemical, mechanical, barrier and antibacterial properties of starch nanocomposites crosslinked with pre-oxidised sucrose	<a href="https://doi.org/10.1016/j.indcrop.2019.01.007">https://doi.org/10.1016/j.indcrop.2019.01.007</a>
4	Effect of starch reduced graphene oxide on thermal and mechanical properties of phenol formaldehyde resin nanocomposites	<a href="https://doi.org/10.1016/j.compositesb.2018.12.009">https://doi.org/10.1016/j.compositesb.2018.12.009</a>
5	Protective effect of the polyherbal formulation, Nalpamaram against ethano. induced hepatotoxicity in rats.	<a href="http://dx.doi.org/10.21276/ap.2020.9.2.21">http://dx.doi.org/10.21276/ap.2020.9.2.21</a>
6	Enhancement in electrical conductivity and dynamic mechanical properties of resole resin with ZnO-RGO as nanofiller	<a href="https://doi.org/10.1016/j.diamond.2020.107934">https://doi.org/10.1016/j.diamond.2020.107934</a>
7	Seasonal Variability of Groundwater quality in coastal Aquifers of Kavarati Island, Lakshadweep Archipelago, India	<a href="https://doi.org/10.1016/j.gsd.2020.100377">https://doi.org/10.1016/j.gsd.2020.100377</a>
8	Influence of p-n junction mechanism and alumina overlayer on the photocatalytic performance of TiO <sub>2</sub> nanotubes	<a href="https://iopscience.iop.org/article/10.1088/1361-6528/ab8043/meta">https://iopscience.iop.org/article/10.1088/1361-6528/ab8043/meta</a>
9	Viscoelastic and electrical properties of RGO reinforced phenol formaldehyde nanocomposites	<a href="https://doi.org/10.1002/app.49211">https://doi.org/10.1002/app.49211</a>
10	Mechanical and thermal properties of ZnO anchored GO reinforced phenol formaldehyde resin	<a href="https://doi.org/10.1016/j.diamond.2020.107961">https://doi.org/10.1016/j.diamond.2020.107961</a>
11	Effect of MWCNT carboxylation on mechanical, thermal and morphological behaviour of phenol formaldehyde nanocomposites	<a href="https://doi.org/10.1177/0021998320964263">https://doi.org/10.1177/0021998320964263</a>
12	Thermal and Electrical Properties of Phenol Formaldehyde Foams Reinforcing with Reduced Graphene Oxide	<a href="https://doi.org/10.1002/pc.25715">https://doi.org/10.1002/pc.25715</a>
13	Antifungal activity of human gut lactic acid bacteria against aflatoxigenic Aspergillus	<a href="https://doi.org/10.1111/jfs.12942">https://doi.org/10.1111/jfs.12942</a>

	flavus MTCC 2798 and their potential application as food biopreservative.	
14	Water sorption behavior of phenol formaldehyde resin reinforcing with reduced graphene oxide and ZnO decorated graphene oxide	<a href="https://doi.org/10.1007/s10965-021-02490-5">https://doi.org/10.1007/s10965-021-02490-5</a>
15	A comprehensive review on cellulose, chitin, and starch as fillers in natural rubber biocomposites	<a href="https://doi.org/10.1016/j.carpta.2021.100095">https://doi.org/10.1016/j.carpta.2021.100095</a>
16	Polypyrrole-silver nanocomposite for enhanced photocatalytic degradation of methylene blue under sunlight irradiation.	<a href="https://doi.org/10.1016/j.matlet.2021.130014">https://doi.org/10.1016/j.matlet.2021.130014</a>
17	$\alpha$ -Fe <sub>2</sub> O <sub>3</sub> /ZnO heterostructure for enhanced photocatalytic and antibacterial activity	<a href="https://iopscience.iop.org/article/10.1088/1361-6641/ac07c9/meta">https://iopscience.iop.org/article/10.1088/1361-6641/ac07c9/meta</a>
18	Library Networking Services for the differently-abled students in Kerala:a proposal of State Consortium for Inclusive Libraries with Assistive technologies(SCILAT)	<a href="http://www.iaslic1955.org.in/fckeditor/userfiles/file/IASLIC%20Bulletin%20DECEMBER%202021Abs%20%20Ref.pdf">http://www.iaslic1955.org.in/fckeditor/userfiles/file/IASLIC%20Bulletin%20DECEMBER%202021Abs%20%20Ref.pdf</a>
19	Progress in organocatalysis with hypervalent iodine catalysts	<a href="https://pubs.rsc.org/en/content/articlehtml/2022/cs/d2cs00206j">https://pubs.rsc.org/en/content/articlehtml/2022/cs/d2cs00206j</a>
20	Antimicrobial compound produced by human gut lactic acid bacteria having antifungal activity against aflatoxigenic <i>Aspergillus flavus</i> MTCC 2798	<a href="https://doi.org/10.1111/jfpp.16834">https://doi.org/10.1111/jfpp.16834</a>
21	Protective effect of the polyherbal formulation Nalpamaram on the oxidative stress induced by ethanol	<a href="http://dx.doi.org/10.54085/ap.2022.11.2.34">http://dx.doi.org/10.54085/ap.2022.11.2.34</a>
22	Phenotypic variations among strains of <i>Escherichia coli</i> O157 isolated from raw milk samples collected in Kerala, South India	<a href="https://ijfans.org/uploads/paper/3113ea87a4eface98456b2fbe4306ebf.pdf">https://ijfans.org/uploads/paper/3113ea87a4eface98456b2fbe4306ebf.pdf</a>
23	Repetitive Extragenic Palindromic (REP) and Enterobacterial Repetitive Intergenic Consensus (ERIC) sequence-based typing of Shigatoxin producing <i>Escherichia coli</i> (STEC) from Bovine Environment.	<a href="https://doi.org/10.1111/jfs.12977">https://doi.org/10.1111/jfs.12977</a>
24	The relationship of lipid peroxidation and antioxidant status to selected modifiable risk factors in coronary artery disease patients.	<a href="https://doi.org/10.1016/j.ijchy.2021.100077">https://doi.org/10.1016/j.ijchy.2021.100077</a>
25	<i>Kurthia gibsonii</i> Mb126 immobilised chitinase against <i>Aspergillus flavus</i> , a fungal pathogen linked to lemon postharvest deterioration;	<a href="https://doi.org/10.17485/IJST/v15i3.2387">https://doi.org/10.17485/IJST/v15i3.2387</a>
26	Deproteinization of Shrimp Shell Waste by <i>Kurthia gibsonii</i> Mb126 immobilized chitinase	<a href="https://doi.org/10.22207/JPAM.16.2.11">https://doi.org/10.22207/JPAM.16.2.11</a>

27	Antifungal effects of <i>Kurthia gibsonii</i> Mb126 chitinase as a seed treatment	<a href="http://dx.doi.org/10.7324/JABB.2022.100417">http://dx.doi.org/10.7324/JABB.2022.100417</a>
28	Nano silica entrapped alginate beads for the purification of ground water contaminated with bacteria	<a href="https://doi.org/10.1007/s12633-021-051544-z">https://doi.org/10.1007/s12633-021-051544-z</a>
29	Influence of Magnesium Doping on the Photocatalytic and Antibacterial Properties of Hematite Nanostructures	<a href="https://doi.org/10.1002/pssb.202100437">https://doi.org/10.1002/pssb.202100437</a>
30	A comprehensive review on phenol-formaldehyde resin-based composites and foams	<a href="https://doi.org/10.1002/pc.27059">https://doi.org/10.1002/pc.27059</a>
31	Exoenzyme Profiling of Soil Bacteria from Thattekad Bird Sanctuary for Bioprospection	<a href="https://doi.org/10.22207/JPAM.17.2.26">https://doi.org/10.22207/JPAM.17.2.26</a>
32	Composites of resorcinol and hexamethylenetetramine modified nanocellulose whiskers as potential biofiller in natural rubber latex: synthesis, characterization and property evaluation	<a href="https://doi.org/10.1007/s13399-023-03850-5">https://doi.org/10.1007/s13399-023-03850-5</a>
33	Salutary attributes of probiotic human gut lactobacilli for gut health	<a href="https://doi.org/10.1093/lambio/ovad011">https://doi.org/10.1093/lambio/ovad011</a>
34	Thermal diffusivity study of one-pot synthesised polypyrrole silver nanocomposite by thermal lens method."	<a href="https://doi.org/10.1016/j.mtcomm.2022.105151">https://doi.org/10.1016/j.mtcomm.2022.105151</a>
35	A model of foreground emission in UV using GALEX deep observations.	<a href="https://doi.org/10.1016/j.asr.2022.07.086">https://doi.org/10.1016/j.asr.2022.07.086</a>
36	Surface plasmon resonance induced impressive absorptive nonlinearity from C-2-phenylethenilcalix [4]resorcinarene silver hybrid system.	<a href="https://doi.org/10.1016/j.optmat.2023.113638">https://doi.org/10.1016/j.optmat.2023.113638</a>