

GOVERNMENT AUTONOMOUS COLLEGE, ANGUL, ODISHA-759143

ସରକାରୀ ସ୍ୱୟଂଶାସିତ ମହାବିଦ୍ୟାଳୟ, ଅନୁଗୋଳ, ଓଡ଼ିଶା: ୭୫୯୧୪୩

email:principalgaca@gmail.com

RESEARCH SUMMARY

PARAMETER	2019	2020	2021	2022	2023	2024	TOTAL
JOURNALS	6	8	7	9	18	20	68
BOOK	2	4	6	5	7	2	26
PATENTS	0	0	0	0	1	3	4
PROJECT	0	0	0	0	1	2	3
TOTAL	8	12	13	14	27	27	

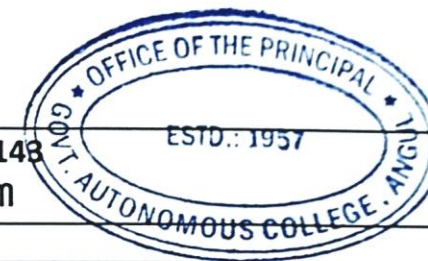

COORDINATOR

RESEARCH & COORDINATION COMMITTEE


PRINCIPAL

Principal
Govt. Auto. College, Angul

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 ସରକାରୀ ସ୍ୱୟଂଶାସିତ ମହାବିଦ୍ୟାଳୟ, ଅନୁଗୋଳ, ଓଡ଼ିଶା: ୭୫୯୧୪୩



PUBLICATIONS (SCI/ SCOPUS/UGC CARE)

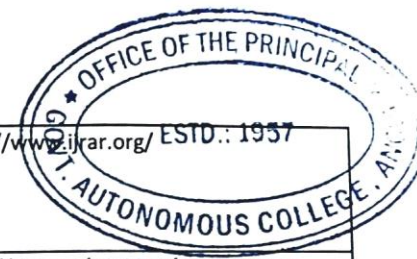
SL NO	TITLE	AUTHORS	DEPARTMENT	JOURNAL	YEAR	ISSN	LINK
1	Sandwich-structured starch-grafted	Kalyani Prusty, Pramod K. Sethy, Sarat K. Swain	Chemistry	Advances in Polymer Technology	2019	1098-2329	https://www.sciencedirect.com/science/article/abs/pii/S1011134418309230
2	Presence of Potential G-Quadruplex RNA-Forming Motifs at the 5'-UTR of PP2A α mRNA Repress Translation	Sushree Prangya P Pany, Mahak Sapra, Jitendar Sharma, V Dhamodharan, Swati Patankar, PI Pradeepkumar	Chemistry	Chembiochem	2019	1439-4227	https://chemistry-europe.onlinelibrary.wiley.com/doi/abs/10.1002/cbic.201900336
3	Cationic red emitting fluorophore: A light up NIR fluorescent probe for G4-DNA	Beena Kumaria , Akanksha Yadav , Sushree P. Pany , Pradeepkumar P.I. , Sriram Kanvaha,	Chemistry	Journal of Photochemistry & Photobiology, B: Biology	2019	1011-1344	https://doi.org/10.1002/pc.24636
4	Nanoclay decorated polyacrylic acid/starch hybrid nanocomposite thin films as packaging materials	Pramod K. Sethy, Kalyani Prusty, Priyaranjan Mohapatra, Sarat K. Swain , Volume40, Issue1,	Chemistry	Polymer Composites	2019	1548-0569	
5	ସାଂପ୍ରତିକ ଓଡ଼ିଆ କବିତାରେ ଦଳିତ ଚେତନା(Sampratika Odia Kabitare Dalit Chetana).	S.C.Rajahansa	Odia	'କାବ୍ୟଲୋକ'(Kavyalok)	2019	2349-0160	
6	Structural and Thermal Study of Mg ₂ TiO ₄ Nanoparticle Synthesis by Mechanical Alloying Method	Ranjan K Bhuyan, D. Pamu, Basanta K Sahoo and Ashish K Sarangi	Physics	Micro and Nanosystems	2019	18764029	https://doi.org/10.2174/1876402911666190613105851
7	Nano-CaCO ₃ -embodied polyacrylicacid/dextran nanocomposites for packaging applications	Pramod K. Sethy, Kalyani Prusty, Priyaranjan Mohapatra, Sarat K. Swain	Chemistry	Journal of Applied Polymer Science	2020	0021-8995	https://doi.org/10.1002/app.48298

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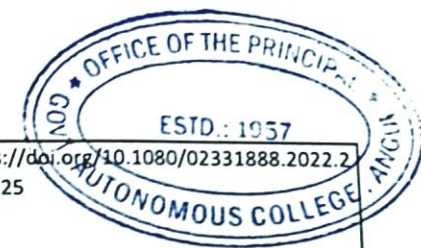
8	Hydrosilylation of Esters Catalyzed by Bisphosphine Manganese(I) Complex: Selective Transformation of Esters to Alcohols	Rakesh R. Behera , Rahul GhoshSurajit PandaSubrat KhamariBidraha Bagh*	Chemistry	Organic Letters	2020	1523-7060	https://pubs.acs.org/doi/10.1021/acs.orglett.0c01144
9	Change in Orientation of Polyacrylic Acid and Chitosan Networks by Imprintment of Gold Nanoparticles	Anuradha Biswal, Pramod K. Sethy & Sarat K. Swai	Chemistry	Polymer-Plastics Technology and Materials	2020	2574-089X	https://doi.org/10.1080/25740881.2020.1793196
10	Analysis of imprecisely defined fuzzy space-fractional telegraph equations.	Tapaswini, S., Behera, D.	Mathematics	Pramana - J Phys	2020	0304-4289	https://doi.org/10.1007/s12043-019-1889-x
11	ଓଡ଼ିଆ ଅସ୍ମିତାର ଐତିହାସିକ ପରିଚୟ (Odia Asmitara Aitihāsika Parichaya).	S.C.Rajahansa	Odia	'କୋଣାର୍କ' (Konark), ଓଡ଼ିଶା ସାହିତ୍ୟ ଏକାଡେମୀ	2020	NA	
12	Odia Identity and Language Movement of Odisha.	S.C.Rajahansa	Odia	Asian Journal of Multi-disciplinary Studies	2020	2321-8819	https://asianjournals.org/online/
13	The Odia Official language Act and Language Movement in 21st Century AD	S.C.Rajahansa	Odia	International Journal of Trend in Scientific Research and Development	2020	2456-6470	https://onlinelibrary.wiley.com/doi/full/10.1002/adv.22161
14	Influence of high energy ball milling on structural, microstructural and optical properties of Mg ₂ TiO ₄ nanoparticles	RK Bhuyan, RK Mohapatra, G Nath, BK Sahoo, D Pamu, D Das	Physics	Journal of material science: Materials in Electronics	2020	0957-4522	https://doi.org/10.1007/s10854-019-02568-3
15	Antimicrobial and barrier properties of polyacrylic acid/GO hybrid nanocomposites for packaging application	Pramod K. Sethy, Priyaranjan Mohapatra, Swapnita Patra, Debasrita Bharatiya, Sarat K. Swain	Chemistry	Nano-Structures & Nano-Objects	2021	2352-507X	https://doi.org/10.1016/j.nanoso.2021.100747
16	Portrait of Arrogance and Treachery of Politicians: Two Vignettes of Gourahari Das	Manoranjan Mishra	English	Daath Voyage	2021	2455-7544	https://www.daathvoyagejournal.com/

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17	Kaaul in AmavasyaraChandra: More Sinned against than Sinning	Manoranjan Mishra	English	International Journal of Research and Analytical Reviews	2021	2348 1269	https://www.ijrar.org/ ESTD.: 1957
18	Imprecisely defined fractional-order Fokker–Planck equation subjected to fuzzy uncertainty	Tapaswini, S., Behera, D.	Mathematics	Pramana - J Phys	2021	0304-4289	https://doi.org/10.1007/s12043-020-02033-5
19	DIBYA AANUPATIKA KASATI PAASANE BAARABAANI SUNAA GIRAA	Abhimanyu Bagarty	Odia	Saptarshi	2021	0973-3264	
20	Microscopic study of two band superconductivity in magnesium diboride Superconductors (MgB ₂)	B.K. Sahoo, B.R. Mishra, S. Das, S.K. Barik, P. Patnaik, R.K. Bhuyan and B.N. Panda	Physics	American Journal of Physics and Applications	2021	2330-4308	https://doi.org/10.11648/j.ajpa.20210902.11
21	Plankton Diversity and Abundance of River Mahanadi At Cuttack	Smruti Sahu PC Rout	Zoology	Innovation the Research Concept	2021	2456–5474 6	http://www.socialresearchfoundation.com/innovation.php
22	Targeting Parallel Topology of G-Quadruplex Structures by Indole-Fused Quindoline Scaffolds Biochemistry,	Satendra Kumar, Sushree Prangya Priyadarshinee Pany, Sruthi Sudhakar, Sushma B Singh, Chaitra S Todankar, PI Pradeepkumar	Chemistry	Biochemistry	2022	0006-2960	https://pubmed.ncbi.nlm.nih.gov/36314731/
23	Manganese-Catalyzed Chemoselective Hydrosilylation of Nitroarenes: Sustainable Route to Aromatic Amines	Rakesh R. BeheraSurajit PandaRahul GhoshA. Ashis KumarBidraha Bagh*	Chemistry	Organic Letters	2022	1523-7060	https://doi.org/10.1021/acs.orglett.2c03576
24	Stabilization and fluorescence light-up of G-quadruplex nucleic acids using indolyl-quinolinium based probes	Annyesha Biswas, Sushma B Singh, Chaitra S Todankar, Sruthi Sudhakar, Sushree Prangya Priyadarshinee Pany, PI Pradeepkumar, ,, 2022, 24, 6238-6255	Chemistry	Physical Chemistry Chemical Physics	2022	1463-9076	https://pubs.rsc.org/en/content/articlelanding/2022/cp/d1cp04718c

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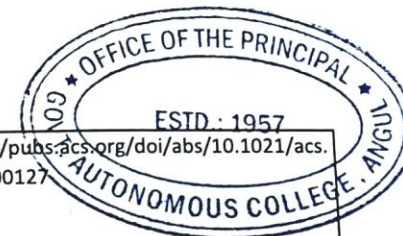
25	Estimating positive powers of the scale parameters under order restriction for two normal populations with a common mean	Pravash Jena & Manas Ranjan Tripathy	Mathematics	A Journal of Theoretical and Applied Statistics	2022	2326-8999	https://doi.org/10.1080/02331888.2022.2079125
26	Nano BN reinforced cellulose-based tripolymeric hybrid nanocomposites as packaging materials	Pramod K Sethy, Anuradha Biswal, Priyaranjan Mohapatra & Sarat K Swain	Mathematics	Polymer-Plastics Technology and Materials	2022	2574-089X	https://doi.org/10.1080/25740881.2022.2044048
27	ଓଡ଼ିଶା ସରକାରୀ ଭାଷା ଅଧିନିୟମ ୧୯୫୪: ଏକ ଦୃଷ୍ଟିପାତ (Odisha Sarakari Bhasa Adhiniyama Eka Drustipata)	S.C. Rajahansa	Odia	ଝଙ୍କାର (Jhankar)	2022	NA	
28	Theoretical study of superconducting gap in presence of antiferromagnetism in Iron Pnictide Superconductors	B.K. Sahoo, S. Das, B.N. Panda and Fábio Teixeira Dias	Physics	Cryogenics	2022	0011-2275	https://doi.org/10.1016/j.cryogenics.2022.103525
29	Study of effective de Gennes Factor and effect of Doping on Superconductivity in Rare-earth Nickel Borocarbide Superconductors	B.K. Sahoo, S. Pradhan, S. Das, S K Barik, P Patnaik, R K Bhuyan and B.N. Panda , , 66 3315-3318 (2022)	Physics	Materials Today Proceedings	2022	2214-7853	https://doi.org/10.1016/j.matpr.2022.06.535
30	Ultra-Low Loss Mg ₂ TiO ₄ Based Dielectric Ceramics for Microwave Applications: An Overview	R K Bhuyan	Physics	Micro and Nanosystems	2022	1876-4029	https://www.eurekaselect.com/article/109458
31	Gender Bias in Attainment of Biological Science Concepts in Higher Secondary Schools Of Odisha	Abhimanyu Das & PC Rout	Botany	Asian Resonance	2023	0976-8602 13	https://sjfactor.com/passport.php?id=1527

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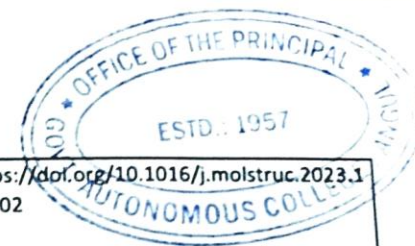
32	Antibiosis Studies on Trichoderma Species against Pathogenic Soil Fungi	Abhimanyu Das & PC Rout	Botany	Indian Research Bulletin	2023	2348-1315 38	https://portal.issn.org/resource/ISSN/2348-1315
33	Azide-Alkyne Cycloaddition Catalyzed by Copper(I) Coordination Polymers in PPM Levels Using Deep Eutectic Solvents as Reusable Reaction Media: A Waste-Minimized Sustainable Approach	Subrat Sethi Narayan Ch. Jana Sourav Behera Rakesh R. Behera Bidraha Bagh*	Chemistry	ACS Omega	2023	2470-1343	https://pubs.acs.org/doi/10.1021/acsomega.2c06231
34	Selective aerobic oxidation of biomass model compound veratryl alcohol catalyzed by air-stable copper(ii) complexes in water	Narayan Ch. Jana, Sourav Behera, Suraj Kumar Maharana, Rakesh R. Behera Bidraha Bagh	Chemistry	Catal. Sci. Technol.	2023	2044-4753	https://pubs.rsc.org/en/content/articlelanding/2023/cy/d3cy00671a
35	Catalytic Transfer Hydrogenation of Lignocellulosic Biomass Model Compounds Furfural and Vanillin with Ethanol by an Air-stable Iron(II) Complex	Rahul Ghosh, Rakesh R. Behera, Surajit Panda, Sandeep K. Behera, Dr. Narayan Ch. Jana, Dr. Bidraha Bagh	Chemistry	ChemCatChem	2023	1867-3899	https://chemistryeurope.onlinelibrary.wiley.com/doi/abs/10.1002/cctc.202201062
36	Cobalt catalyzed chemoselective reduction of nitroarenes: hydrosilylation under thermal and photochemical reaction conditions	Surajit Panda, Amareshwar Nanda, Rakesh R. Behera, a Rahul Ghosha and Bidraha Bagh	Chemistry	Chemical Communications (RSC Publishing)	2023	1359-7345	https://pubs.rsc.org/en/content/articlelanding/2023/cc/d3cc00328k

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37	Hydrosilylation of Terminal Alkynes Catalyzed by an Air-Stable Manganese-NHC Complex	Rakesh R. Behera, Ratnakar Saha, Alamsaty Ashis Kumar, Subrat Sethi, Narayan Ch. Jana, Bidraha Bagh*	Chemistry	J. Org. Chem	2023	0022-3263	https://pubs.acs.org/doi/abs/10.1021/acs.joc.3c00127
38	Point and Interval Estimation of Powers of Scale Parameters for Two Normal Populations with a Common Mean	Jena, P., Tripathy, M.R. & Kumar, S.	Mathematics	Stat Papers	2023	2049-1573	https://doi.org/10.1007/s00362-022-01361-5
39	Analysis of Structural, Photoluminescence, and Colorimetric Performance of Gd-Incorporated BNT Ceramic	R Paikaray, T Badapanda, T Richhariya, S Behera, SN Tripathy	Physics	Journal of Fluorescence	2023	1573-4994	https://link.springer.com/article/10.1007/s10895-023-03544-1
40	Effect of H ₂ O ₂ Concentration on Morphology, Reflectivity and Wettability of Si Nanowalls Prepared by Metal Assisted Chemical Etching	Anil Kumar Behara, Tom Mathews	Physics	Asian Journal of Chemistry	2023	0975-427X	https://doi.org/10.14233/ajchem.2023.28099
41	Structural, relaxor behavior, and energy storage performance of BaTiO ₃ -Bi (Mg ₂ /3Nb ₁ /3) O ₃ solid solutions for potential MLCC application	S Sahoo, T Badapanda, D Kumar, SK Rout, S Mohanty, J Ray, Satya N Tripathy	Physics	Ceramics International	2023	0272-8842	https://doi.org/10.1016/j.ceramint.2023.09.096
42	Exploration of MgTiO ₃ -CaTiO ₃ Ceramic-Based Dielectric Resonator Antenna for Sub-6 GHz 5G Communication Application	S Mohapatra, R Barman, TK Das, T Badapanda, EL Bennett, SN Tripathy	Physics	ECS Journal of Solid State Science and Technology	2023	2162-8769	10.1149/2162-8777/ace287
43	Piezoelectric response of binary nitrides, Procedia Environmental Science	S. K. Sahoo, B. K. Sahoo and S. Dash	Physics	Engineering and Management	2023	1042-9247	

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44	Exploration of crystal structure, and luminescence behaviors of Terbium-activated CaWO ₄ phosphor	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, K Tiwari, Nameeta Brahme, Satya N Tripathy	Physics	Journal of Molecular Structure	2023	0022-2860	https://doi.org/10.1016/j.molstruc.2023.135902
45	Structural, photoluminescence, and thermoluminescence behaviors of Samarium doped CaWO ₄ phosphor	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, Nameeta Brahme, Satya N Tripathy	Physics	Materials Science and Engineering: B	2023	0921-5107	https://doi.org/10.1016/j.mseb.2023.116511
46	Understanding of structural evolution, dielectric performance, and photoluminescence behavior of Sm-modified Na _{0.5} BiO ₃ . 5TiO ₃	S Lenka, T Badapanda, SP Ghosh, T Richhariya, S Sarangi, Satya N Tripathy	Physics	Materials Today Communications	2023	2352-4928	https://doi.org/10.1016/j.mtcomm.2023.106738
47	Dependence of thermal conductivity of graphene on the coefficient of linear expansion and temperature,	D. K. Das, H. Bhattacharjee, S. K. Sahoo and S. Sahoo,	Physics	Materials Today: Proceedings	2023	2214-7853	https://doi.org/10.1016/j.matpr.2023.06.149
48	Exploration of MgTiO ₃ -CaTiO ₃ Ceramic-Based Dielectric Resonator Antenna for Sub-6 GHz 5G Communication Application	S. Mohapatra, R. Barman, T. K. Das, T. Badapanda, Elliot L. Bennett and Satya N. Tripathy	Physics	The Electrochemical Society ("ECS"). ECS Journal of Solid State Science and Technology	2023	2162-8777	https://iopscience.iop.org/article/10.1149/2162-8777/ace287/meta
49	Synthesis, SAR, and application of JQ1 analogs as PROTACs for cancer therapy☆	Soumik De, Raghava Sahu, Shubhendu Palei, Laxmi Narayan Nanda,	Chemistry	Bioorganic & Medicinal Chemistry	2024	1464-3391	https://doi.org/10.1016/j.bmc.2024.117875
50	New Avenues for the Synthesis of Oxa-Cycles Using Lewis/Brønsted Acid Mediated Carboxylation and Carboalkoxylation of Alkynes	Dr. Santosh Kumar Nanda, Dr. Laxmi Narayan Nanda, Juhi Pal, Dr. Santosh J. Gharpure,, EurJOC (), Volume27, Issue19 May 21, 2024	Chemistry	European Journal of Organic Chemistry	2024	1434-193X	https://doi.org/10.1002/ejoc.202400104

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51	Transition metal catalysed cascade C–C and C–O bond forming events of alkynes	Padmanava Barik,a Subhra Sriharsa Behera,a Laxmi Kanta Nayak,a Laxmi Narayan Nand Santosh Kumar Nanda Padmanava Patria ,,, 2024,22, 5052-508,	Chemistry	Org. Biomol. Chem.	2024	1477-0539	https://doi.org/10.1039/D3OB02044G
52	Innovation in Agrochemical Industry: The Role of Kisan Credit Scheme (KCC) in Facilitating Entrepreneurship and Sustainability	Sugyani Rath, Jayanta Kumar Parida	Commerce	Journal of Informatics Education and Research	2024	1526-4726	https://jier.org/index.php/journal
53	Estimating powers of the scale parameters under order restriction for two shifted exponential populations with a common location	Pravash Jena &Manas Ranjan Tripathy	Mathematics	Communications in Statistics - Theory and Methods	2024	0361-0926	https://doi.org/10.1080/03610926.2023.2248533
54	Hypothesis Testing and Interval Estimation on Common Hazard Rate of Two Exponential Populations	Jena, P., & Ranjan Tripathy, M.	Mathematics	REVSTAT-Statistical Journal	2024	1645-6726	https://revstat.ine.pt/index.php/REVSTAT/article/view/745
55	ପ୍ରାଚୀନ ଓଡ଼ିଶାର ସାଂସ୍କୃତିକ ଐତିହ୍ୟ ଓ ଅସ୍ମିତାର ପ୍ରତିଲିପି : ବାଲିରାଜା (Prachina Odishara Sanskrutika Aitihya O Asmitara Pratilipi: Baliraja)	S.C.Rajahansa	Odia	'କୋଣାର୍କ' (Konark) ଓଡ଼ିଶା ସାହିତ୍ୟ ଏକାଡେମୀ	2024	NA	
56	ବେଦିଂଶ ଶତାବ୍ଦୀର ଓଡ଼ିଆ ଆତ୍ମଜୀବନୀକର କଳାରେ ଉପାଦାନ	ରୁଦ୍ରନରାୟଣ ସହୁ	Odia	BAGEESHA	2024	2583-9543	https://bageesha.in/
57	ଓଡ଼ିଆ ଅସ୍ମିତା ସଂରଚନାରେ ଭାଷାଚର୍ଚ୍ଚା (Odia Asmita Sanrachanare Bhasacharcha)	S.C.Rajahansa	Odia	BHASAPATRA	2024	NA	

18/12/24



58	Structure property correlation of (1-x) MgTiO ₃ -xSrTiO ₃ microwave dielectric ceramics for dielectric resonator antenna applications	Subhralin Mohapatra, R Barman, TK Das, T Badapanda, Y Huang, J Xiao, Satya N Tripathy	Physics	Ceramics International	2024	0272-8842	https://doi.org/10.1016/j.ceramint.2024.05.390
59	Investigation of dynamic scaling behavior, electrocaloric performance, and pyroelectric energy storage of Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ ceramic	A Ray, M Nayak, H Joardar, S Sahoo, T Badapanda, P Jena, SK Mishra, R Mittal, Satya N Tripathy	Physics	Chemical Physics Impact	2024	2667-0224	https://doi.org/10.1016/j.chphi.2024.100555
60	An investigation of microwave dielectric properties of BaZr _{0.25} Ti _{0.75} O ₃ and performance of DRA for 5G application	Mohapatra, S., Badapanda, T. & Tripathy, S.N. . 35, 167 (2024).	Physics	J Mater Sci: Mater Electron	2024	0957-4522	https://doi.org/10.1007/s10854-024-11937-6
61	Understanding of the correlation of structural and microwave dielectric performance of (1-x) MgTiO ₃ -xCaTiO ₃ ceramics for dielectric resonator antenna applications	Subhralin Mohapatra, T Badapanda, R Barman, TK Das, Y Huang, J Xiao, Satya N Tripathy	Physics	Journal of Alloys and Compounds	2024	0925-8388	https://doi.org/10.1016/j.jallcom.2024.175616
62	An investigation of microwave dielectric properties of BaZr _{0.25} Ti _{0.75} O ₃ and performance of DRA for 5G application	S Mohapatra, T Badapanda, SN Tripathy	Physics	Journal of Materials Science: Materials in Electronics	2024	0957-4522	https://link.springer.com/article/10.1007/s10854-024-11937-6
63	Impact of CeO ₂ additive on the temperature and frequency-dependent relaxation and conduction mechanism of BNT-BT ceramic	S Sahoo, T Badapanda, P Nayak, SK Rout, SN Tripathy	Physics	Journal of Materials Science: Materials in Electronics	2024	0957-4522	https://link.springer.com/article/10.1007/s10854-024-13239-3

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64	Understanding the impact of gadolinium substitution on the impedance and conduction mechanism of barium zirconium titanate ceramics	G Nag Bhargavi, T Badapanda, M Shahid Anwar, Mehdi Tlija, H Joardar, Satya N Tripathy	Physics	Journal of Materials Science: Materials in Electronics	2024	0957-4522	https://link.springer.com/article/10.1007/s10854-024-13741-8
65	Correlation of the crystal structure, bond characteristics, and microwave dielectric properties of (1-x)	Subhralin Mohapatra, T Badapanda, R Barman, TK Das, Y Huang, J Xiao, Satya N Tripathy	Physics	Materials Science in Semiconductor Processing	2024	13698001	https://doi.org/10.1016/j.mssp.2024.109061
66	Investigations of structural, photoluminescence, colorimetric, lifetime, and luminous efficiency of Tb3+	R Paikaray, T Badapanda, H Mohapatra, T Richhariya, SN Tripathy	Physics	Materials Today Communications	2024	2352-4928.	https://doi.org/10.1016/j.mtcomm.2024.109296
67	Microstructure Analysis of Silicon Nanowalls: Insights from Positron Beam Doppler	Lakshmanan, C., Viswanath, R.N., Behera, A.K. et al.. Silicon 16, 5317–5325 (2024).	Physics	Silicon	2024	1876-9918	https://doi.org/10.1007/s12633-024-03075-9
68	Spectrum of Nodal and Extra Nodal Lymphoma in a Regional Cancer Centre	K C Pani, P C Rout & Debasrita Mohanty	Zoology	European Journal of Medical and Health Research	2024	2786-8524	https://ejmhr.com/index.php/journal

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