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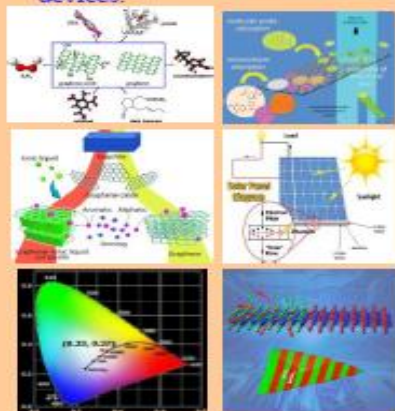
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Avalahalli, Doddaballapur Main Road, Bengaluru – 560064

## Physics – Research Compendium

### AREAS OF RESEARCH INTEREST

- Advanced Nanomaterials
- Graphene/CNT/Fullerenes
- Hybrid nanomaterials for solar cell
- Phosphors for WLED applications
- Nano sensors and Devices
- Nanotechnology for energy Generation and storage
- Nanotechnology for biomedical and drug delivery
- Nanomaterials for chemical and catalytic applications.
- Nanotechnology for environment Applications.
- NEMS/MEMS Nanostructure and devices.



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### Facilities for Advanced Materials Research



**INTER DISCIPLINARY  
RESERCH AT BMSIT&M**

## Research Facilities at Advanced Materials Research lab at BMSIT&M

Muffle furnaces



Pelletizer



Micro Balance



Centrifuge machine



Heater with stirrer



Hot-Air oven, uv-degradation unit



Muffle furnace with fume hood



Consumables



Confocal Video Raman microscope



FT-IR Spectroeter



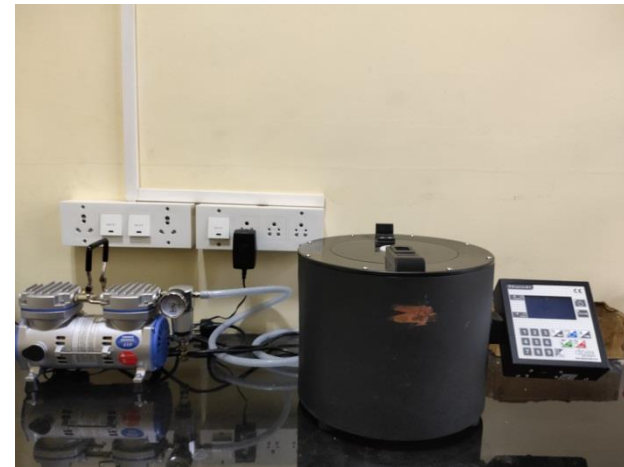
UV-Visible Spectroeter



Solar Simulator

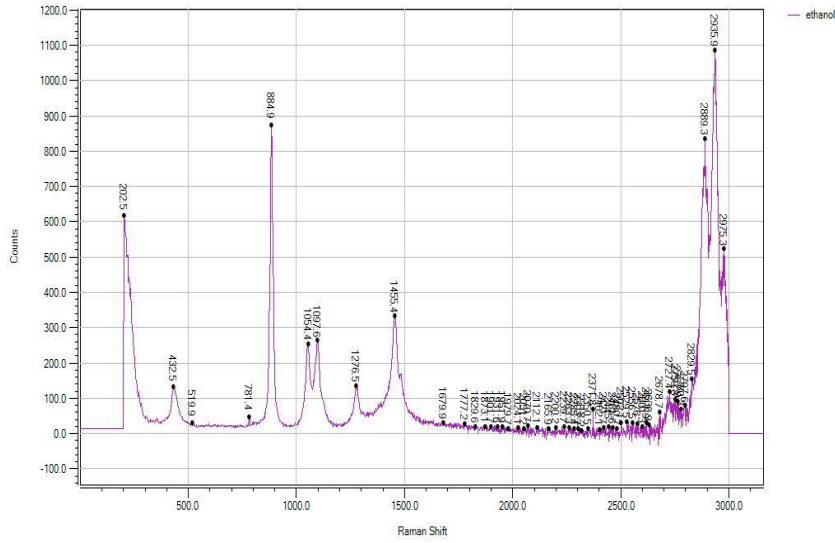


Thin Film Coater

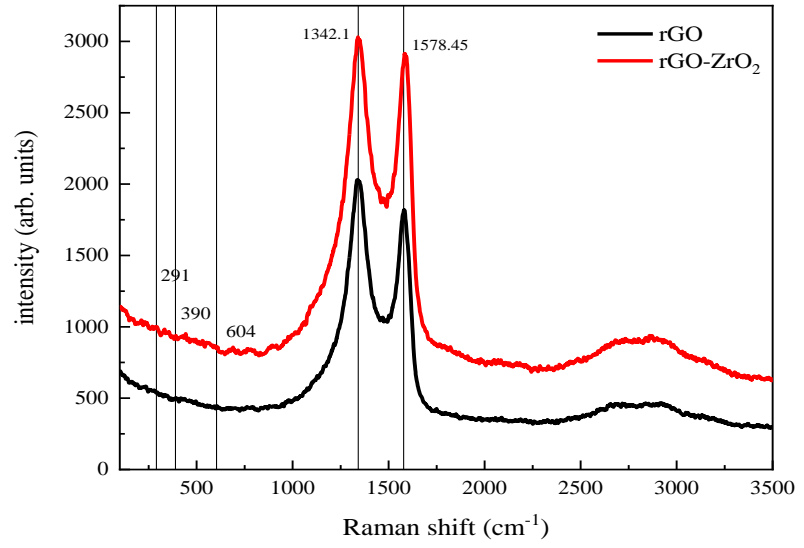
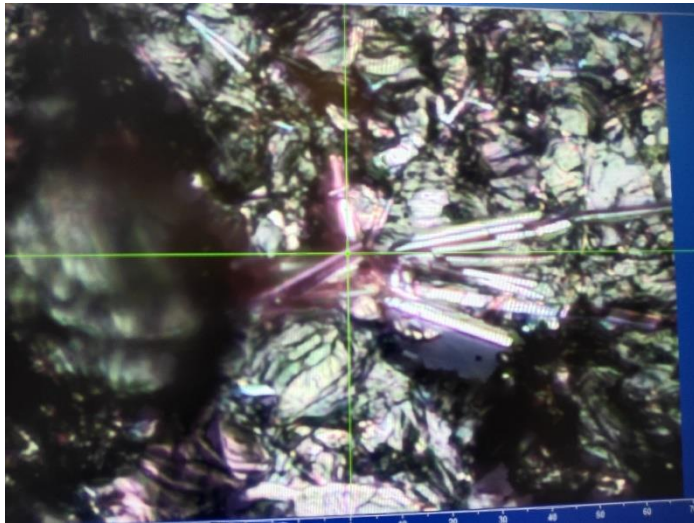
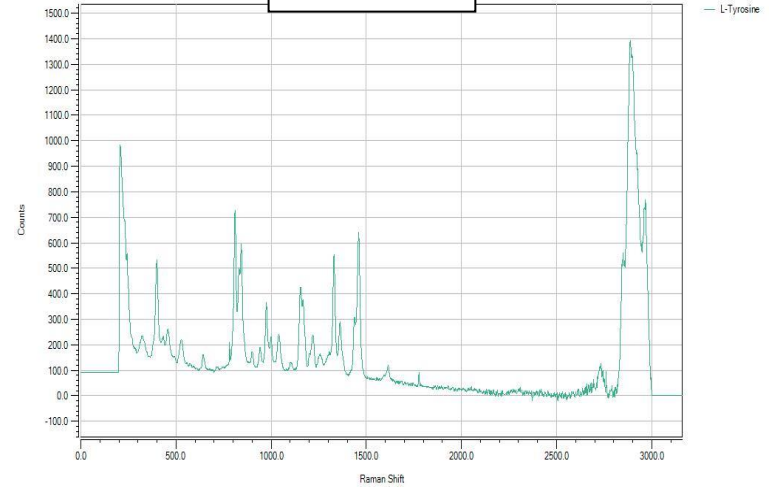


## Raman spectra/optical image of few known samples

Ethan



L-Tyrosine



# Synthesis Methods

C Kavitha

Materials Today: Proceedings xxx (xxxx) xxx

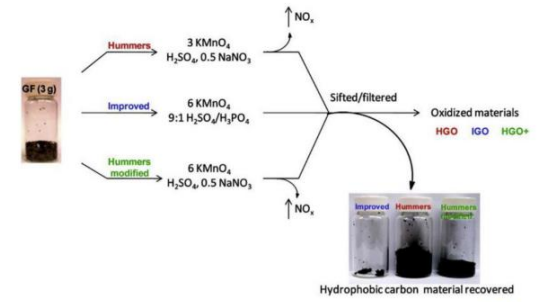
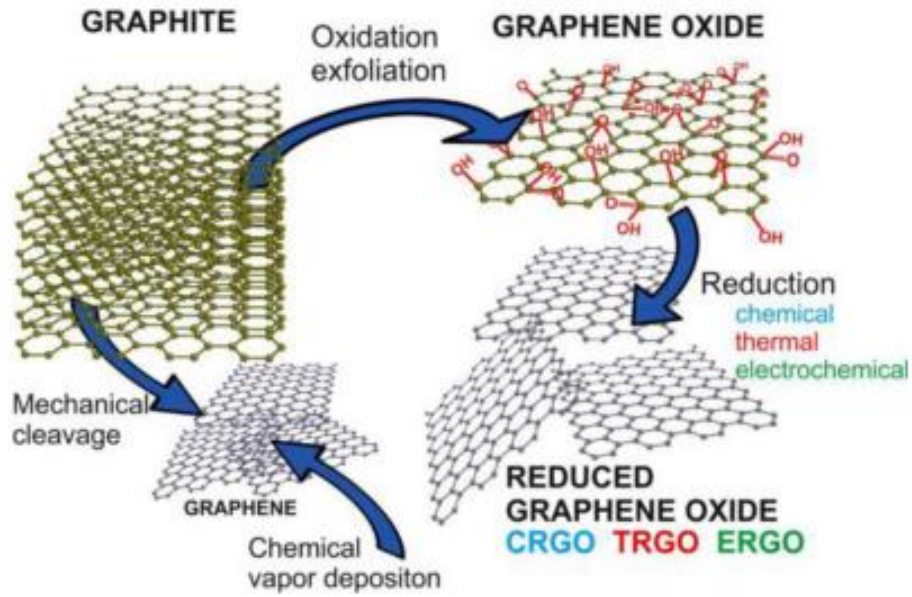
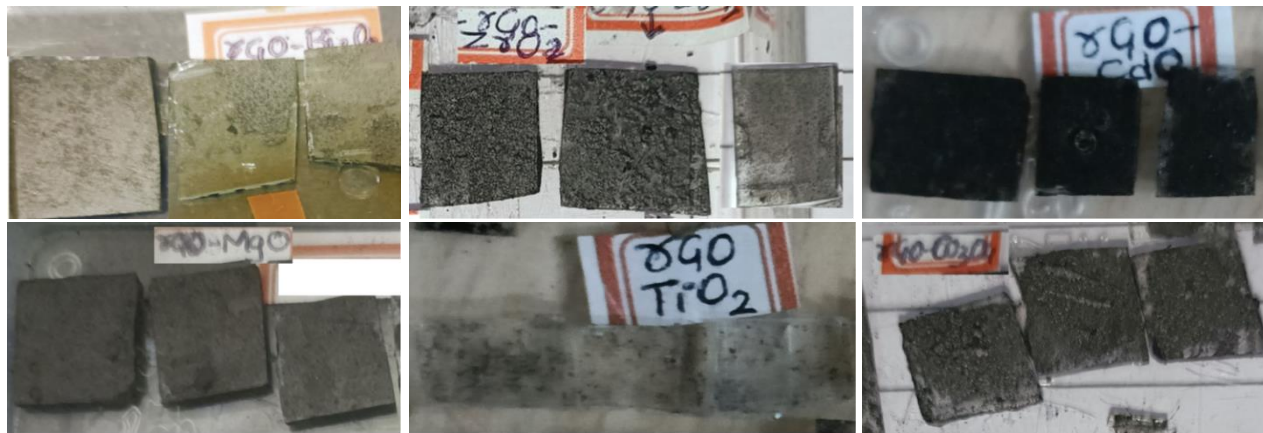
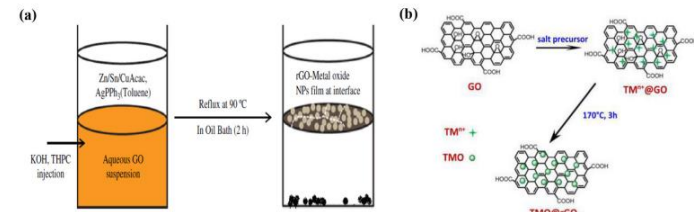
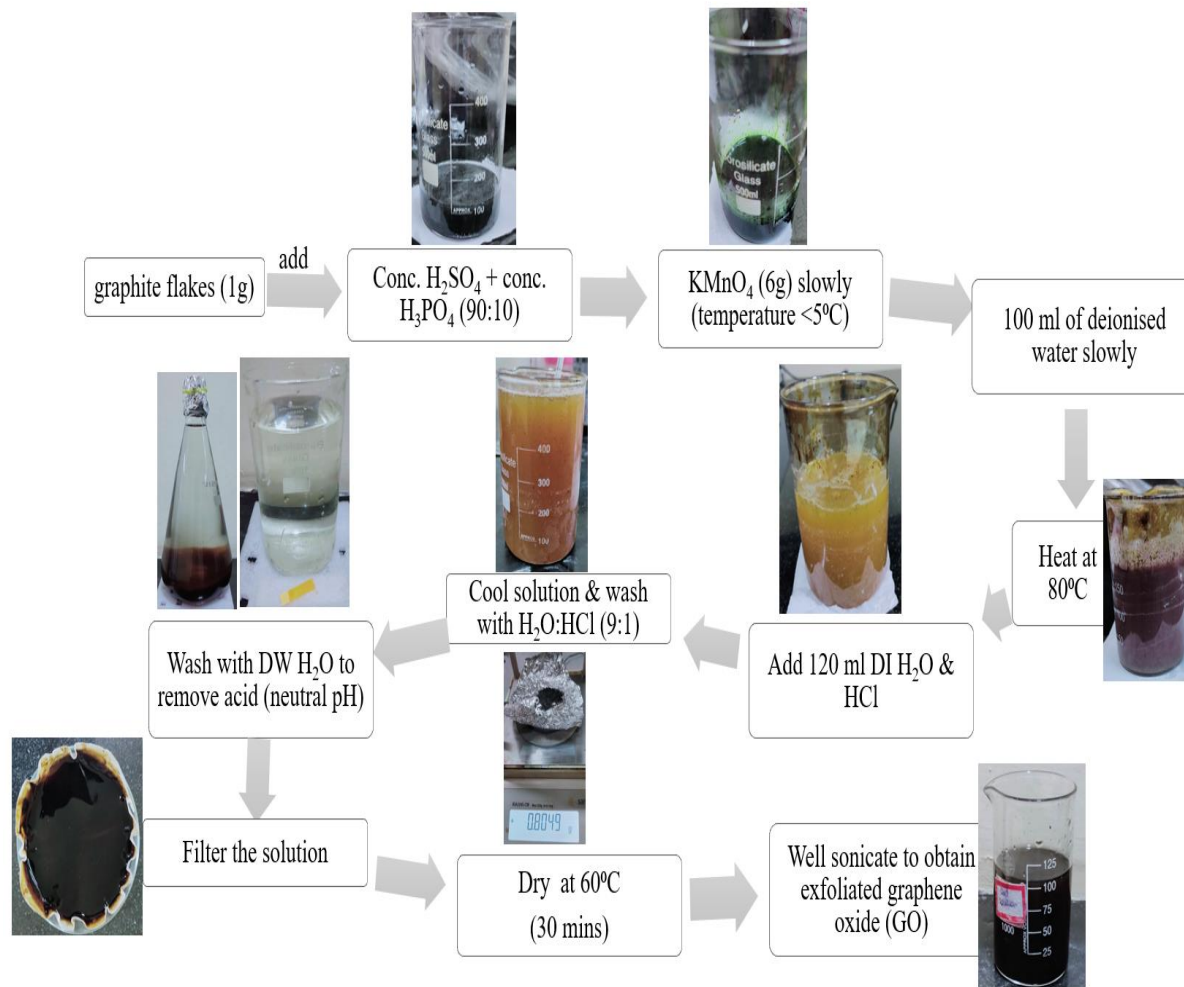


Fig. 3. Schematic of most common GO synthesis methods. Reproduced with permission from ref [22].





### Scopus/Google Scholar Indexed Publications

Type	2018	2019	2020	2021	2022	Total
Scopus Publications	60	43	10	20	11	144
Google scholar Publications	65	42	13	21	12	153
Scopus citations	931	1249	685	1400	979	5244
Google scholar citations	1094	1419	834	1576	1270	6193

### Consolidated Scopus Profile till 12 July 22

Sl. No.	Faculty Name	Scopus Publications	Citation	h-index	Hyperlink for the publication details
1	Dr. Dhananjaya N	90	1893	27	<a href="https://www.scopus.com/authid/detail.uri?authorId=36129303500">https://www.scopus.com/authid/detail.uri?authorId=36129303500</a>
2	Dr. Lokesh R	6	54	5	<a href="https://www.scopus.com/authid/detail.uri?authorId=57213509942">https://www.scopus.com/authid/detail.uri?authorId=57213509942</a>
3	Mrs. Yashaswini	7	37	3	<a href="https://www.scopus.com/authid/detail.uri?authorId=56648053600">https://www.scopus.com/authid/detail.uri?authorId=56648053600</a>
4	Mrs. Ashwini K R	4	18	3	<a href="https://www.scopus.com/authid/detail.uri?authorId=57205460041">https://www.scopus.com/authid/detail.uri?authorId=57205460041</a>
5	Dr. Daruka Prasad B	111	3352	36	<a href="https://www.scopus.com/authid/detail.uri?authorId=55667863900">https://www.scopus.com/authid/detail.uri?authorId=55667863900</a>
6	Dr. Kavitha C	28	299	11	<a href="https://www.scopus.com/authid/detail.uri?authorId=56678007200">https://www.scopus.com/authid/detail.uri?authorId=56678007200</a>
7	Dr. Basavaraj R B	96	2088	27	<a href="https://www.scopus.com/authid/detail.uri?authorId=56703297400">https://www.scopus.com/authid/detail.uri?authorId=56703297400</a>
	<b>Total</b>	<b>342</b>	<b>7741</b>	<b>112</b>	

### Consolidated Google Scholar Profile till 12 July 22

Sl. No.	Faculty Name	Google scholar indexed Publications	Citation	h-index	i10 index	Hyperlink for the publication details
1	Dr. Dhananjaya N	102	2152	30	51	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=rg78MZIAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=rg78MZIAAAAJ</a>
2	Dr. Lokesh R	8	63	4	3	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=spkB-3sAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=spkB-3sAAAAJ</a>
3	Mrs. Yashaswini	-	-	-	-	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=SAanpt4AAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=SAanpt4AAAAJ</a>
4	Mrs. Ashwini K R	4	18	3	0	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=XXB-aLsAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=XXB-aLsAAAAJ</a>
5	Dr. Daruka Prasad B	118	3447	38	80	<a href="https://scholar.google.co.in/citations?user=4OPf81EAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=4OPf81EAAAAJ&amp;hl=en</a>
6	Dr. Kavitha C	33	876	17	34	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=tSO0yh4AAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=tSO0yh4AAAAJ</a>
7	Dr. Basavaraj R B	101	2407	28	60	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=QbB0cfwAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=QbB0cfwAAAAJ</a>
	<b>Total</b>	<b>366</b>	<b>9329</b>	<b>120</b>	<b>228</b>	



### Consolidated Scopus Profile for the year 2018 to July 2022

Sl. No.	Faculty Name	Hyperlink for the publication details	2018		2019		2020		2021		2022	
			Publications	Citation	Publications	Citation	Publications	Citation	Publications	Citation	Publications	Citation
1	Dr. Dhananjaya N	<a href="https://www.scopus.com/authid/detail.uri?authorId=36129303500">https://www.scopus.com/authid/detail.uri?authorId=36129303500</a>	3	175	15	223	4	124	11	318	7	262
2	Dr. Lokesh R	<a href="https://www.scopus.com/authid/detail.uri?authorId=57213509942">https://www.scopus.com/authid/detail.uri?authorId=57213509942</a>	0	5	2	3	0	3	1	15	0	13
3	Mrs. Yashaswini	<a href="https://www.scopus.com/authid/detail.uri?authorId=56648053600">https://www.scopus.com/authid/detail.uri?authorId=56648053600</a>	0	6	2	5	0	1	2	9	2	9
4	Mrs. Ashwini K R	<a href="https://www.scopus.com/authid/detail.uri?authorId=57205460041">https://www.scopus.com/authid/detail.uri?authorId=57205460041</a>	-	-	-	-	-	-	2	6	0	9
5	Dr. Daruka Prasad B	<a href="https://www.scopus.com/authid/detail.uri?authorId=55667863900">https://www.scopus.com/authid/detail.uri?authorId=55667863900</a>	22	444	2	565	2	280	4	546	2	355
6	Dr. Kavitha C	<a href="https://www.scopus.com/authid/detail.uri?authorId=56678007200">https://www.scopus.com/authid/detail.uri?authorId=56678007200</a>	4	24	2	27	2	15	2	45	1	34
7	Dr. Basavaraj R B	<a href="https://www.scopus.com/authid/detail.uri?authorId=56703297400">https://www.scopus.com/authid/detail.uri?authorId=56703297400</a>	31	277	20	426	2	262	6	461	1	323
	<b>Total</b>		<b>60</b>	<b>931</b>	<b>43</b>	<b>1249</b>	<b>10</b>	<b>685</b>	<b>28</b>	<b>1400</b>	<b>13</b>	<b>1005</b>

### Consolidated Google Scholar Profile for the year 2018 to July 2022

Sl. No.	Faculty Name	Hyperlink for the publication details	2018		2019		2020		2021		2022	
			Publications	Citation	Publications	Citation	Publications	Citation	Publications	Citation	Publications	Citation
1	Dr. Dhananjaya N	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=rg78MZIAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=rg78MZIAAAAJ</a>	4	190	15	236	5	147	11	348	8	262
2	Dr. Lokesh R	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=spkB-3sAAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=spkB-3sAAAAAJ</a>	0	6	1	1	1	5	1	15	0	18
3	Mrs. Yashaswini	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=SAanpt4AAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=SAanpt4AAAAAJ</a>	0	8	2	8	0	3	3	0	2	0
4	Mrs. Ashwini K R	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=XXB-aLsAAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=XXB-aLsAAAAAJ</a>	-	-	-	-	-	-	3	6	0	9
5	Dr. Daruka Prasad B	<a href="http://www.scopus.com/authid/detail.uri?authorId=55667863900">http://www.scopus.com/authid/detail.uri?authorId=55667863900</a>	22	486	4	616	3	343	5	565	3	435
6	Dr. Kavitha C	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=tSO0yh4AAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=tSO0yh4AAAAAJ</a>	4	75	2	71	2	30	2	146	2	138
	Dr. Basavaraj R B	<a href="https://scholar.google.co.in/citations?hl=en&amp;user=QbB0efwAAAAAJ">https://scholar.google.co.in/citations?hl=en&amp;user=QbB0efwAAAAAJ</a>	35	329	18	487	2	306	6	496	2	408
<b>8</b>	<b>Total</b>		<b>65</b>	<b>1094</b>	<b>42</b>	<b>1419</b>	<b>13</b>	<b>834</b>	<b>31</b>	<b>1576</b>	<b>17</b>	<b>1270</b>



## Author details

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Document title	Authors	Year	Source	Cited by
Enhanced humidity sensing performance of Samarium doped Lanthanum Aluminate at room temperature	Pratibha, S., Chethan, B., Ravikiran, Y.T., Dhananjaya, N., Jagadeesh Angadi, V.	2020	Sensors and Actuators, A: Physical	2
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Competition between binary fission, ternary fission, cluster radioactivity and alpha decay of <sup>281</sup> Ds	Sowmya, N., Manjunatha, H.C., Dhananjaya, N., Nagaraja, A.M.	2020	Journal of Radioanalytical and Nuclear Chemistry	0
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Improved luminescence and LPG sensing properties of Sm <sup>3+</sup> -doped lanthanum aluminate thin films	Pratibha, S., Dhananjaya, N., Pasha, A., Khasim, S.	2020	Applied Nanoscience (Switzerland)	0
<a href="#">View abstract</a> <a href="#">Related documents</a>			Article in Press	
Synthesis and photoluminescence properties of Eu <sup>3+</sup> doped LaOCl phosphor with reddish orange emission and its Judd-Ofelt analysis <i>Open Access</i>	Yashodha, S.R., Dhananjaya, N., Manjunath, C.	2020	Materials Research Express	0
<a href="#">View abstract</a> <a href="#">Related documents</a>				
The orange red luminescence and conductivity response of Eu <sup>3+</sup> doped GdOF phosphor: Synthesis, characterization and their Judd-Ofelt analysis	Dhananjaya, N., Yashodha, S.R., Shivakumara, C.	2019	Materials Research Express	0

Document title	Authors	Year	Source	Cited by
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Costus Pictus leaf extract mediated biosynthesis of Fe and Mg doped CuO nanoparticles: Structural, electrochemical and antibacterial analysis	Raveesha, H.R., Sudhakar, M.S., Pratibha, S., (...), Nagaswarupa, H.P., Dhananjaya, N.	2019	Materials Research Express	1
<a href="#">View abstract</a> <a href="#">Related documents</a>				
One pot solution combustion synthesis of nano Dicalcium magnesium aluminate and effective utilization of hazardous fluoride removal: Kinetics, equilibrium and reusability studies	Manjunatha, C.R., Nagabhushana, B.M., Adarsha, J.R., Pratibha, S., Dhananjaya, N.	2019	Materials Research Express	1
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Green synthesis of Ag[sbnd]ZnO nanoparticles: Structural analysis, hydrogen generation, formylation and biodiesel applications <i>Open Access</i>	Yadav, L.S.R., Pratibha, S., Manjunath, K., (...), Dhananjaya, N., Nagaraju, G.	2019	Journal of Science: Advanced Materials and Devices	5
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Reformed solution combustion approach for probing of structural and dielectric properties of Sm <sup>3+</sup> doped GdAlO <sub>3</sub> nanoparticles	Lokesh, R., Pratibha, S., Dhananjaya, N., Manohara, S.R., Sudheer Kumar, K.H.	2019	Materials Research Express	2
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Perovskite lanthanum aluminate nanoparticles applications in antimicrobial activity, adsorptive removal of Direct Blue 53 dye and fluoride	Manjunatha, C.R., Nagabhushana, B.M., Raghu, M.S., (...), Dhananjaya, N., Narayana, A.	2019	Materials Science and Engineering C	8
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View abstract <a href="#">Related documents</a>				
Investigations of enhanced luminescence properties of Sm <sup>3+</sup> doped LaAlO <sub>3</sub> nanophosphors for field emission displays <i>Open Access</i>	Pratibha, S., Dhananjaya, N., Lokesh, R.	2019	Materials Research Express	3
View abstract <a href="#">Related documents</a>				
Electrical switching behavior of amorphous Al <sub>23</sub> Te <sub>77</sub> thin film sample	Das, C., Lokesh, R., Rao, G.M., Asokan, S.	2010	Journal of Non-Crystalline Solids	4
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Electrical switching behavior of bulk Si <sub>15</sub> Te <sub>85-x</sub> Sbx chalcogenide glasses - A study of compositional dependence	Lokesh, R., Udayashankar, N.K., Asokan, S.	2010	Journal of Non-Crystalline Solids	14
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Photoluminescence studies of ytterbium doped calcium sulphate nanophosphors for display applications	Yashaswini, Pandurangappa, C., Dhananjaya, N.	2019	Materials Research Express	0
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Structural and optical studies of CaSO <sub>4</sub> :Ce <sup>3+</sup> nanorods for display and dosimetric applications	Yashaswini, Pandurangappa, C., Dhananjaya, N.	2019	European Physical Journal Plus	2
<a href="#">View abstract</a> <a href="#">Related documents</a>				
Solvothermal synthesis, characterization and photoluminescence studies of ZnS:Eu nanocrystals	Ashwini, K., Yashaswini, Pandurangappa, C.	2014	Optical Materials	16
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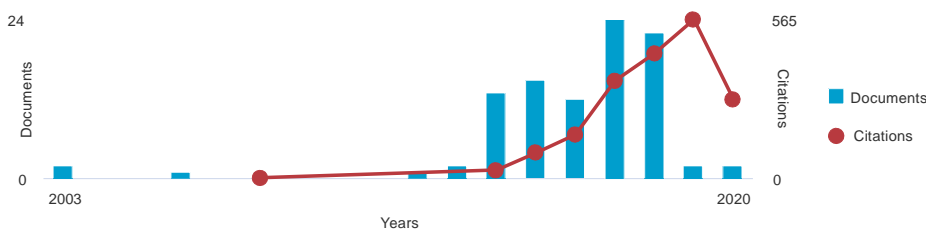
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Ashwini, K.R., Premkumar, H.B., Darshan, G.P., (...), Nagabhushana, H., Daruka Prasad, B.	2020	Journal of Science: Advanced Materials and Devices	0

Hierarchical zinc aluminate 3D nanostructures, synthesized by bio-inspired ultrasound assisted sonochemical route: Display and dosimetry applications *Open Access*

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Femila Komahal, F., Nagabhushana, H., Darshan, G.P., Daruka Prasad, B.	2020	Arabian Journal of Chemistry	3
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Deepthi, N.H., Darshan, G.P., Basavaraj, R.B., (...), Kavyashree, D., Nagabhushana, H.	2019	ACS Sustainable Chemistry and Engineering	2
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Document title	Authors	Year	Source	Cited by
Rapid visualization of latent fingerprints using novel CaSiO <sub>3</sub> :Sm <sup>3+</sup> nanophosphors fabricated via ultrasound route <i>Open Access</i> Related documents View abstract	Basavaraj, R.B., Darshan, G.P., Daruka Prasad, B., Sharma, S.C., Nagabhushana, H.	2019	Journal of Rare Earths	14
Lysine assisted hydrothermal synthesis and formation process of MoO <sub>3</sub> :Sm <sup>3+</sup> phosphors with hierarchical structures and its electron trapping luminescence properties Related documents View abstract	Yogananda, H.S., Basavaraj, R.B., Naik, R., (...), Daruka Prasad, Nagabhushana, H.	2018	Journal of Alloys and Compounds	4
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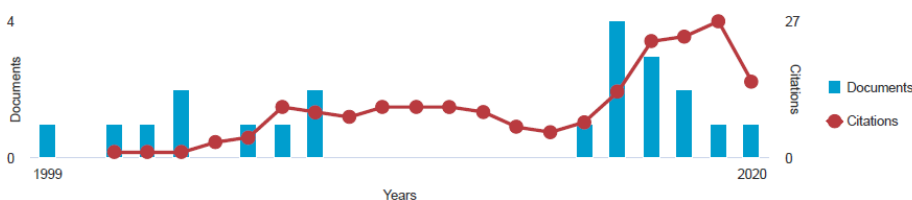
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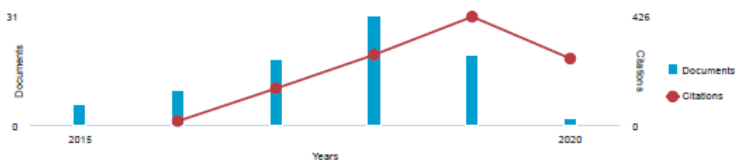
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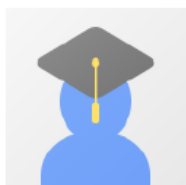
Associate Professor of physics,  
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Assistant Professor of Physics,  
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photonics  
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Materials Engineering

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Raman spectroscopy  
hybrid nanomaterials

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Material Science  
Nanomaterials  
Luminescence

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