

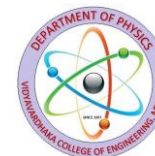


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## DEPARTMENT OF PHYSICS



### Papers Published in National / International Journals

(Year Wise - From 2012)

Sl. No.	Title of paper	Name of the author/s	Name of Journal / Volume & Issue, Page No.	Year of publication	ISBN/ISSN number	Paper Web Link
1.	Synthesis and Characterization of Advanced Functional Dysprosium Doped $\text{Sr}_2\text{MgSi}_2\text{O}_7$ Nanophosphors for White LED Applications	K. R. Jyothi, K. R. Bhagya, H. Nagabhushana, M. V. Murugendrappa, A. P. Gnana Prakash, Vinayakprasanna N Hegde and N. M. Nagabhushana	Physica B, Vol. 590, p 412195	2020	0921-4526	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0921452620302076">https://www.sciencedirect.com/science/article/abs/pii/S0921452620302076</a>
2.	Facile Green Synthesis, Characterization and Transport Properties of $\text{LiAlSiO}_4:\text{Ce}^{3+}$ Nanocomposites	K. R. Jyothi, K. R. Bhagya, H. Nagabhushana, M. V. Murugendrappa, A. P. Gnana Prakash, Vinayakprasanna N Hegde, N. M. Nagabhushana	Ceramics International, Vol. 46, pp 9706-9713	2020	0272-8842	<a href="https://www.sciencedirect.com/science/article/pii/S027288421933740X">https://www.sciencedirect.com/science/article/pii/S027288421933740X</a>
3.	Analysis of 80 MeV Carbon and 80 MeV Nitrogen ion irradiation effects on N-channel MOSFETs	Arshiya, Vinayakprasanna N. Hegde, T. M. Pradeep, N. Pushpa, Ambuj Tripathi, K Asokan and A. P. Gnana Prakash	IEEE Transaction on Device and Materials Reliability, Vol. 19, pp 696-703	2019	1042-0150	0.1109/TDMR.2019.2945400
4.	Swift Heavy Ions Induced Degradation on the Electrical Characteristics of Silicon NPN Power Transistors	T. M. Pradeep, Vinayakprasanna N. Hegde N. Pushpa, John D. Cressler, Ambuj Tripathi, K Asokan and A. P. Gnana	Radiation Effects and Defects in Solids, Vol. 174, pp 859-872	2019	1042-0150	<a href="https://doi.org/10.1080/10420150.2019.1667356">https://doi.org/10.1080/10420150.2019.1667356</a>



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		Prakash				
5.	Electrical Conductivity and Dielectric Constant Studies of HPMC/PEG – SLS Solid Polymer Blend Films before and after Gamma irradiation	N. Sandhya Rani	Journal of Emerging Technologies and Innovative research (JETIR), 6, 2, 478 - 487	2019	27485	<a href="http://adrjournalshouse.com/index.php/materials-Metallurgical-engg/article/view/339">http://adrjournalshouse.com/index.php/materials-Metallurgical-engg/article/view/339</a>
6.	Determination of crystal structure and elastic constants of MCU-5 cotton fiber using WAXS data	V.V. Manju, S. Divakara, K Byrappa & R. Somashekhar	AIP Conf. Proc., Vol. 2115, pp. 030032(1-4)	2019	2115	<a href="https://aip.scitation.org/doi/abs/10.1063/1.5112871">https://aip.scitation.org/doi/abs/10.1063/1.5112871</a>
7.	Electrical Conductivity and Dielectric Constant Studies of HPMC/PEG – SLS Solid Polymer Blend Films before and after Gamma irradiation	Hadadi Yallappa, J. Sannappa, Sandhya Rani, L. R. Shivakumara	Journal of Emerging Technologies and Innovative research	2019	2349-5162	<a href="https://link.springer.com/article/10.1007/s11581-014-1151-y">https://link.springer.com/article/10.1007/s11581-014-1151-y</a>
8.	Determination of crystal structure and elastic constants of MCU-5 cotton fiber using WAXS data	Manju V V, Divakara S, K Byrappa, R Somashekar	AIP Conf. Proc., Vol. 2115, pp. 030032(1-4)	2019	9780735416345	<a href="https://aip.scitation.org/doi/abs/10.1063/1.5112871">https://aip.scitation.org/doi/abs/10.1063/1.5112871</a>
9.	High Energy Swift Heavy Ion Irradiation and Annealing Effects on DC Electrical Characteristics of 200 GHz SiGe HBTs	Vinayakprasanna N. Hegde, K. C. Praveen, T. M. Pradeep, N. Pushpa, John D. Cressler, Ambuj Tripathi, K Asokan and A. P. Gnana Prakash	Nuclear Engineering and Technology Vol. 51, pp. 1428-1435	2019	1738-5733	<a href="https://doi.org/10.1016/j.net.2019.03.016">https://doi.org/10.1016/j.net.2019.03.016</a>
10.	Studies of hydrogen bonding of HPMC doped with CdCl <sub>2</sub> polymer using FTIR technique	N. Sandhya Rani, M. S. Manjunatha, J. Sannappa, T. Demappa	Materials Today: proceedings	2018		<a href="https://www.sciencedirect.com/science/article/pii/S2214785318317590">https://www.sciencedirect.com/science/article/pii/S2214785318317590</a>
11.	Structural and ionic conductivity properties of gamma irradiated HPMC polymer electrolyte films	Sandhya Rani N, S. A. Mohan Krishna	Journal of advanced research in manufacturing material science & metallurgical	2018	2394-7039	<a href="http://adrjournalshouse.com/index.php/materials-Metallurgical-engg/article/view/339">http://adrjournalshouse.com/index.php/materials-Metallurgical-engg/article/view/339</a>

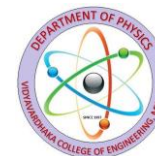


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			Engineering			
12.	Structural Characterization and Docking Studies of (Z)-N-Phenyl Benzo Hydrazonoyl Chloride Derivative as Promising Antimicrobial Acinetobacter Baumannii Penicillin-Binding Protein Target	G.V.Ashok Reddy, C. S. Dileep, Shamantha Kumar, B. Vrushabendra, Chandra, N. Srikantamurthy and B. H. Doreswamy	Journal of Applicable Chemistry	2018	2278-1862	<a href="http://www.joac.info/ContentPaper/2018/1-4-2-3-6.pdf">http://www.joac.info/ContentPaper/2018/1-4-2-3-6.pdf</a>
13.	5 MeV Proton irradiation effects on 200 GHz silicon-germanium heterojunction bipolar transistors	A P Gnana Prakash, Vinayakprasanna N Hegde, T M Pradeep, N Pushpa, P K Bajpai, S P Patel, Tarkeshwar Trivedi, J D Cressler	IEEE Transaction on Device and Materials Reliability Vol.56, pp 646-649	2018	1042-0150	<a href="https://doi.org/10.1080/10420150.2017.1418874">https://doi.org/10.1080/10420150.2017.1418874</a>
14.	Comparisons of 5 MeV Proton and 1 MeV Electron Irradiation on Silicon NPN RF Power Transistors	T. M. Pradeep, Vinayakprasanna N. Hegde, N. Pushpa, K. G. Bhushan and A. P. Gnana Prakash	Indian Journal of Pure and Applied Physics Vol.56, pp 646-649	2018	0019-5596	<a href="http://nopr.niscair.res.in/handle/123456789/44847">http://nopr.niscair.res.in/handle/123456789/44847</a>
15.	The effects of high-energy ion irradiations on the I-V characteristics of silicon NPN transistors	A. P. Gnana Prakash, M. N. Bharathi, Vinayakprasanna N. Hegde, T. M. Pradeep, N. Pushpa and Ambuj Tripathi	Radiation Effects and Defects in Solids Vol.173, Nos. 7-8, pp 683-693	2018	1042-0150	<a href="https://doi.org/10.1080/10420150.2018.1499735">https://doi.org/10.1080/10420150.2018.1499735</a>
16.	Free Volume Dependence on Electrical Properties of Poly(Styrene Co-Acrylonitrile)/Nickel Oxide Polymer Nanocomposites	S. Ningaraju, Vinayakprasanna N. Hegde, A. P. Gnana Prakash and H. B. Ravikumar	Chemical Physics Letters, Vol.698, pp 24-35, April 2018	2018	0009-2614	<a href="https://doi.org/10.1016/j.cpl.2018.03.002">https://doi.org/10.1016/j.cpl.2018.03.002</a>
17.	A Comparison of 5 MeV Proton and Co-60 Gamma Irradiation on Silicon NPN rf Power Transistors and N-Channel Depletion MOSFETs	A. P. Gnana Prakash, T. M. Pradeep, Vinayakprasanna N. Hegde, N. Pushpa, P. K. Bajpai, S. P. Patel, Tarkeshwar Trivedi and	Radiation Effects and Defects in Solids, Vol.172, Nos. 11-12, pp 952-963	2018	1042-0150	<a href="https://doi.org/10.1080/10420150.2017.1421189">https://doi.org/10.1080/10420150.2017.1421189</a>



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		K.G. Bhushan				
18.	5 MeV Proton Irradiation Effects on 200 GHz Silicon-Germanium Heterojunction Bipolar Transistors	A. P. Gnana Prakash, Vinayakprasanna N. Hegde, T. M. Pradeep, N. Pushpa, P. K. Bajpai, S. P. Patel, Tarkeshwar Trivedi and J. D. Cressler,	Radiation Effects and Defects in Solids, Vol.172, Nos. 11-12, pp 922-930	2018	1042-0150	<a href="https://doi.org/10.1080/10420150.2017.1418874">https://doi.org/10.1080/10420150.2017.1418874</a>
19.	Theoretical Study of Eco Friendly Propulsion System	Sreesha K V & Divakara S	IJAME	2017	23938609	<a href="http://www.ijamejournals.com/pdf/rpj11163.pdf">http://www.ijamejournals.com/pdf/rpj11163.pdf</a>
20.	Comparison of crystallite shapes in four different varieties of cotton fibers using X-ray powder diffraction data	V. V. Manju, S. Divakara & R. Somashekhar	American institute of Physics	2017	15517616	<a href="https://aip.scitation.org/doi/abs/10.1063/1.4980215">https://aip.scitation.org/doi/abs/10.1063/1.4980215</a>
21.	Comparison of Pair Correlation Values in Variety of Cotton Fibers	M. B. Nandaprakash, S. Divakara, S. S. Mahesh & R. Somashekhar	American institute of Physics	2017	15517616	<a href="https://aip.scitation.org/doi/abs/10.1063/1.4980225">https://aip.scitation.org/doi/abs/10.1063/1.4980225</a>
22.	Gamma irradiation effects on some biopolymer electrolyte films	N Sandhya Rani, S A Mohan Krishna	International journal of digital publication technology (IJDTP)	2017		Not available in web page
23.	Ionic conductivity properties of ceric ammonium nitrate (CAN) doped HPMC based biopolymer electrolyte films	N. Sandhya Rani, J. Sannappa	International journal of advancement in Engineering technology, management and applied science.	2017	2349-3224	<a href="http://www.ijaetmas.com/w-p-content/uploads/2017/02/IJ17M0109.pdf">http://www.ijaetmas.com/w-p-content/uploads/2017/02/IJ17M0109.pdf</a>
24.	Studies of hydrogen bonding of HPMC doped with CdCl <sub>2</sub> polymer using FTIR technique	N. Sandhya Rani, M S Manjunatha, J Sannappa, T. Demappa	J.,Elsevier, Materials Today: proceedings, Science direct	2017		Not available in web page
25.	Comparison of crystallite shapes in four different varieties of cotton	V.V. Manju, S. Divakara & R. Somashekhar	American institute of Physics	2017	15517616	<a href="https://aip.scitation.org/doi/abs/10.1063/1.4980215">https://aip.scitation.org/doi/abs/10.1063/1.4980215</a>

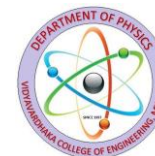


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	fibers using X-ray powder diffraction data					
26.	Comparison of 1 MeV Electron, Co-60 Gamma and 1MeV Proton Irradiation Effects on Silicon NPN Transistors	M. N. Bharathi, N. H. Vinayakprasanna, Arshiya Anjum, T. M. Pradeep, N. Pushpa, K. C. Praveen, K. G. Bhushan and A. P. Gnana Prakash,	Radiation Effects and Defects in Solids, Vol.172, No.3-4, pp 235-249	2017	1042-0150	<a href="https://doi.org/10.1080/10420150.2017.1300902">https://doi.org/10.1080/10420150.2017.1300902</a>
27.	Methyl 2-(benzoyloxy)benzoate	Shamantha Kumar, Chandra, C. S. Dileep, M. Mahendra and B. H. Doreswamy	IUCrData	2016	2414-3146	<a href="https://iucrdata.iucr.org/x/issues/2016/06/00/su4050/su4050.pdf">https://iucrdata.iucr.org/x/issues/2016/06/00/su4050/su4050.pdf</a>
28.	A Comparison of 4 MeV Proton and Co-60 Gamma Irradiation Induced Degradation in the Electrical Characteristics of N-Channel MOSFETs	Arshiya Anjum, N. H. Vinayakprasanna, T. M. Pradeep, N. Pushpa, J. B. M. Krishna and A. P. Gnana Prakash	Nucl. Instr. Meth. Phys. Res. B, Vol. 379, pp 265–271	2016	0168-9002	<a href="https://doi.org/10.1016/j.nimb.2016.04.023">https://doi.org/10.1016/j.nimb.2016.04.023</a>
29.	A Comparison of Lower LET and Higher LET Heavy Ion Irradiation Effects on Silicon NPN rf Power Transistors	M. N. Bharathi, N. Pushpa, N. H. Vinayakprasanna and A. P. Gnana Prakash	Nucl. Instr. Meth. Phys. Res. A., Vol. 822, pp 34-42	2016	0168-9002	<a href="https://doi.org/10.1016/j.nima.2016.03.083">https://doi.org/10.1016/j.nima.2016.03.083</a>
30.	Effects of CdCl <sub>2</sub> concentration on the structural, thermal and ionic conductivity properties of HPMC polymer electrolyte films.	N. Sandhya Rani, J. Sannappa, T. Demappa, Mahadevaiah	Ionics, Springer publications	2015	0947-7047	<a href="https://link.springer.com/article/10.1007/s11581-014-1151-y">https://link.springer.com/article/10.1007/s11581-014-1151-y</a>
31.	Synthesis, characterization, antifungal activity and crystal structure of 1-(2-chlorophenyl)-3-(thiophen-2-yl)-1H-pyrazole-4-carboxaldehyde.	K. R. Raghavendra, K. Ajay Kumar, N. Renuka, C. S. Dileep, N. K. Lokanath, M. A. Sridhar and S. Shashikanth	J. Chem. Pharm. Res.	2015	ISSN-L: 0975-7384	<a href="https://www.researchgate.net/publication/289045656">https://www.researchgate.net/publication/289045656</a>



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32.	Structural, nonlinear absorption and optical limiting properties of a new organic crystal 3-(3-fluorophenyl)-1-[4-(methylsulfanyl) phenyl] prop-2-en-1-one	S. Raghavendra, Dileep C. S., S. M. Dharmaprakash	Molecular crystals and Liquid Crystals	2015	ISSN, 1563-5287	<a href="https://www.tandfonline.com/doi/abs/10.1080/15421406.2014.954323">https://www.tandfonline.com/doi/abs/10.1080/15421406.2014.954323</a>
33.	High Total Dose Co-60 Gamma Irradiation and Annealing Studies on NPN rf Power Transistors	T. M. Pradeep, N. H. Vinayakprasanna, Arshiya Anjum, M. N. Bharathi, N. Pushpa and A. P. Gnana Prakash	ISST Journal of Applied Physics, Vol. 6, No. 2, pp 16-21	2015	0976 – 903X	Not available in web page
34.	A Comparison of 100 MeV Oxygen Ion and Co-60 Gamma Irradiation Effects on Advanced 200 GHz SiGe heterojunction bipolar transistors	N. H. Vinayakprasanna, K. C. Praveen, N. Pushpa, John D. Cressler and A. P. Gnana Prakash	Indian Journal of Physics, Vol.89(8), pp 789-796	2015	0973-1458	10.1007/s12648-015-0654-3
35.	80 MeV Carbon Ion Irradiation Effects on Advanced 200 GHz SiGe Heterojunction Bipolar Transistors	N. H. Vinayakprasanna, K. C. Praveen, N. Pushpa, Ambuj Tripathi, John D. Cressler and A. P. Gnana Prakash,	Advanced Material Letters, Vol. 6(2), pp 120-126	2015	0976-397X	10.5185/amlett.2015.5708
36.	Synthesis and Characterization of Carbon Soot Particles Doped HPMC Polymer Composites	G. K. Gowtham, Vinayakprasanna N. Hegde, Simin Meshk, S. K. Sukrutha and R. Somashekar	Journal of Research Updates in Polymer Science, 4, no. 2, pp. 62	2015	1929-5995	<a href="https://www.lifescienceglobal.com/pms/index.php/jrup/article/view/3164">https://www.lifescienceglobal.com/pms/index.php/jrup/article/view/3164</a>
37.	Effect of Microwave Radiation on Jayadhar Cotton Fibers : WAXS Studies	A. R. Niranjana, S. S. Mahesh, S. Divakara, and R. Somashekar	American Center for Physics	2014	15517616	<a href="https://aip.scitation.org/doi/abs/10.1063/1.4872756">https://aip.scitation.org/doi/abs/10.1063/1.4872756</a>
38.	Structural, thermal, and electrical studies of sodium iodide (NaI)-doped hydroxypropyl methylcellulose (HPMC) polymer electrolyte films	N. Sandhya Rani, J. Sannappa, T. Demappa, Mahadevaiah	Ionics, Springer publications	2014	0947-7047	<a href="https://link.springer.com/article/10.1007/s11581-013-0952-8">https://link.springer.com/article/10.1007/s11581-013-0952-8</a>



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39.	Effects of CdCl <sub>2</sub> concentration and gamma irradiation on the structural, thermal and electrical conductivity properties of HPMC polymer electrolyte films.	N. Sandhya Rani, J. Sannappa, T. Demappa, Mahadevaiah	IOSR Journal of Applied Physics	2014	2278-4861	<a href="https://www.researchgate.net/publication/268926636">https://www.researchgate.net/publication/268926636</a>
40.	Gamma irradiation effects on structural, thermal and electrical conductivity properties of ceric ammonium nitrate (CAN) doped HPMC based biopolymer electrolyte films.	N. Sandhya Rani, J. Sannappa, T. Demappa, Mahadevaiah	IOSR Journal of Applied Physics (IOSR-JAP),	2014	2278-4861	<a href="http://www.ijaemas.com/wp-content/uploads/2017/02/IJ17M0109.pdf">http://www.ijaemas.com/wp-content/uploads/2017/02/IJ17M0109.pdf</a>
41.	Gamma radiation induced effects on structural and thermal properties of hydroxypropyl methyl cellulose (HPMC) polymer films”	N. Sandhya Rani, J. Sannappa, T. Demappa.	YMCAUST International Journal of Research	2014	2319-9377	Not available in web page
42.	Crystal structure of (E)-N-phenyl-NO-[1-(thiophen-2-yl)ethylidene]formo-hydrazide	C. S. Dileep, K. R. Raghavendra, N. K. Lokanath, K. Ajay Kumar and M. A. Sridhara	ActaCryst	2014	ISSN: 2056-9890	<a href="https://scripts.iucr.org/cgi-bin/paper?S1600536814016511">https://scripts.iucr.org/cgi-bin/paper?S1600536814016511</a>
43.	(4-Fluorophenyl)(2-hydroxy-5-methylphenyl)methanone	C. S. Dileep, V. Lakshmi Ranganatha, N. K. Lokanath, S. A. Khanum and M. A. Sridhar	ActaCryst.	2014	ISSN: 2056-9890	<a href="https://scripts.iucr.org/cgi-bin/paper?s1600536814001883">https://scripts.iucr.org/cgi-bin/paper?s1600536814001883</a>
44.	Crystal structure of Schiff base derivatives of 1-(3,4,5-trimethoxybenzylidene)thiosemicarbazide and (E)-N'-(3-nitrobenzylidene)isonicotinohydrazide	C. S. Dileep, L. Mallesha and M. A. Sridhar	AIP Conference Proceedings	2014	ISSN: 0094-243X	<a href="https://aip.scitation.org/doi/abs/10.1063/1.4872914">https://aip.scitation.org/doi/abs/10.1063/1.4872914</a>



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45.	(4-Fluorophenyl)(4-hydroxy-3-methylphenyl)methanone	C. S. Dileep, V. Lakshmi Ranganatha, N. K. Lokanath, S. A. Khanum and M. A. Sridhar	ActaCryst.	2014	ISSN: 2056-9890	<a href="https://scripts.iucr.org/cgi-bin/paper?IS5325">https://scripts.iucr.org/cgi-bin/paper?IS5325</a>
46.	Structural and ionic conductivity behaviour in hydroxypropyl methylcellulose (HPMC) polymer films complexed with sodium iodide (NaI)	N. Sandhya Rani, J. Sannappa, T. Demappa, Mahadevaiah	Journal of American Institute of Physics	2013	1551-7616	<a href="https://aip.scitation.org/doi/abs/10.1063/1.4791152">https://aip.scitation.org/doi/abs/10.1063/1.4791152</a>
47.	Gamma radiation induced conductivity control and characterization of structural and thermal properties of hydroxyl propyl methyl cellulose (HPMC) polymer complexed with sodium iodide (NaI)	N. Sandhya Rani, J. Sannappa, T. Demappa, Mahadevaiah	Advances in Applied Science Research	2013	0976-8610	<a href="http://www.imedpub.com/articles/gamma-radiation-induced-conductivity-control-and-characterization-of-structural-and-thermal-properties-of-hydroxyl-propyl-methyl-ce.pdf">http://www.imedpub.com/articles/gamma-radiation-induced-conductivity-control-and-characterization-of-structural-and-thermal-properties-of-hydroxyl-propyl-methyl-ce.pdf</a>
48.	Crystal Structure of 4-(4-Aminophenylsulfonyl)Benzenamine	C. S. Dileep, L. Mallesha and M. A. Sridhar	ChemSci J	2013	ISSN: 2041-6520	<a href="https://www.researchgate.net/profile/Mallesha_Lingappa/publication/264899003_Volume_4_BULLET_Issue_2_BULLET_1000077_Chem_Sci_J_ISSN_2150-3494">https://www.researchgate.net/profile/Mallesha_Lingappa/publication/264899003_Volume_4_BULLET_Issue_2_BULLET_1000077_Chem_Sci_J_ISSN_2150-3494</a>
49.	(4-Hydroxy-3,5-dimethylphenyl)(phenyl)methanone	C. S. Dileep, T. Prashanth, S. Jeyaseelan, S. A. Khanum and M. A. Sridhar	ActaCryst.	2013	ISSN: 2056-9890	<a href="https://scripts.iucr.org/cgi-bin/paper?zs2279">https://scripts.iucr.org/cgi-bin/paper?zs2279</a>
50.	(4-Hydroxy-3-methylphenyl)(phenyl)methanone	C. S. Dileep, V. Lakshmi Ranganatha, N. K. Lokanath, A. K. Shaikath and M. A. Sridhar	ActaCryst.	2013	ISSN: 2056-9890	<a href="https://scripts.iucr.org/cgi-bin/paper?S160053681302521X">https://scripts.iucr.org/cgi-bin/paper?S160053681302521X</a>



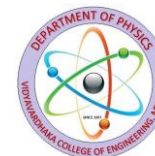


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51.	1H-Indole-3-carbaldehyde	C. S. Dileep, M. M. M. Abdoh, M. P. Chakravarthy, K. N. Mohana and M. A. Sridhar	ActaCryst.	2012	ISSN: 2056-9890	<a href="https://scripts.iucr.org/cgi-bin/paper?GO2070">https://scripts.iucr.org/cgi-bin/paper?GO2070</a>
52.	(E)-N -[1-(Thiophen-2-yl)ethylidene]-isonicotinohydrazide	C. S. Dileep, M. M. M Abdoh, M. P. Chakravarthy, K. N. Mohana and M. A. Sridhar	ActaCryst.	2012	ISSN: 2056-9890	<a href="https://scripts.iucr.org/cgi-bin/paper?hb6959">https://scripts.iucr.org/cgi-bin/paper?hb6959</a>