

## LAST 5 YEARS - LIST OF PUBLICATIONS

### Dr. T. Alagesan

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### International Journals:

Names of all the Authors	Title of the Paper	Name of the Journal, Volume, Page and Year	ISSN/ ISBN/ DoI No.	No. of Citation	Impact Factor 2018 (Research Score)
Sakthivel.S, <b>Alagesan.T</b> , Muthu.S, Swaminathan.T, and Saaianugraha.S	Quantum mechanical study of the structure and spectroscopic (FT-IR and FT-Raman), fukui function analysis and first order hyper-polarizability of 2-amino-1H-purine-6(7H)-thione by density functional method	Int. J. Chem. Tech. Res. 8(10), pp. 276-293, (2015).	0974-4290		0.41
M.Karl Chinnu, K.Vijai Anand, R.MohanKumar, <b>T.Alagesan</b> , and R.Jayavel	Synthesis and electrochemical behavior of Ceria based Bi-layer films by dip coating technique	Jr. Nanosci. & Nanotech., Vol. 15, pp. 360-367, (2015).	1533-4880		(3) 0.49
M.Karl Chinnu, K.Vijai Anand, R.MohanKumar, <b>T.Alagesan</b> , and R.Jayavel	Formation and Characterisation of CeO <sub>2</sub> and Gd:CeO <sub>2</sub> nano-wires/rods for fuel cell applications	Jr.Exp.Nanosci. Vol.10(1), pp. 1-12,(2013).	1745-8080	2	(3) 2.482
A.Manikandan, E.Hema, M.Durka, K.Seevakan, <b>T.Alagesan</b> , S.Arul Antony	Room temperature ferro-magnetism of magnetically recyclable photocatalyst of Cu <sub>1-x</sub> Mn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> -TiO <sub>2</sub> (0.0≤x≤0.5) nano composites	Jr.Supercond. Nov.Magn.Vol. 28,pp.1783–1795, (2015).	1557-1939	73	(6) 1.142
A.Manikandan, E.Hema, M.Durk, M.AmuthaSelvi, <b>T.Alagesan</b> , and S.Arul	Mn <sup>2+</sup> Doped NiS (Mn <sub>x</sub> Ni <sub>1-x</sub> S: x=0.0,0. and 0.5) Nano-crystals: Structural, Morphological, Opto-magnetic and Photo-	Jr. Inorg. Organometallic Polym. and Mats.Vol.25, 4, pp.804–815,	1574-1443	52	(4.5) 1.637

Antony	catalytic Properties	(2015)			(4.5)
A.M.Asiri, M. Karabacak, S.Sakthivel, A.O.Al-youbi, S.Muthu, S.A.Hamed, S.Renuga, and <b>T.Alagesan</b>	Synthesis, molecular structure, spectral investigation on (E)-1-(4-bromophenyl)-3-(4-(dimethylamino) phenyl) prop-2-en-1-one	Jr. Molec. Struc.Vol.1103, pp. 145-155, (2016).	0022-2860		2.011
P.Devendran, <b>T.Alagesan</b> , A.Manikandan, S.AsathBahadur, M.KrishnaKumar, S.Rathinavel, and K. Pandian	Sonochemical Synthesis of Bi <sub>2</sub> S <sub>3</sub> Nanowires Using Single Source Precursor and Study of its Electrochemical Activity	Nanosci. and Nanotech.Letts. Vol.8,pp.1-6, (2016).	1941-4900	3	0.49
K.Seevakan, A.Manikandan, P. Devendran, S.Arul Antony, and <b>T.Alagesan</b>	One-Pot Synthesis and Characterization Studies of Iron Molybdenum Mixed Metal Oxide (Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> ) Nano-Photo-catalysts	Adv. Sci. Eng. Med. Vol.8(7), pp.1-7, (2016).	2164-6635	5	(14) 0.39
K.Subramanian, <b>T.Alagesan</b> , A.Mahalingam, M.S.Mani Rajan	Propagation properties of optical soliton in an erbium-doped tapered parabolic index nonlinear fiber: soliton control	Nonlin. Dyn, Vol.87, Issue.3, pp.1575-1587, (2017).	0924-090X	11	4.339 (6)
M.Maveeran, <b>T.Alagesan</b> , P. Ramesh Babu, K.Senthilnathan	Supercontinuum generation in low dispersion and highly nonlinear hexagonal photonic crystal fibers	Jr.of Nano Photon.,Vol.11(3), pp. 036012, (2017).	19342608	1	0.81 (3)
K.Subramanian, C.Senthil Kumar,R.Radha, and <b>T.Alagesan</b>	Elusive non-interacting localized solutions of (2+1) Maccari equation	Rom. Rep. Phys.,Vol.69(2), Article no.107, pp.1-16 (2017).	1221-1451	4	1.582 (4.5)
S.Mahalakshmi, <b>T.Alagesan</b> , V.Parthasarathy,a nd R.Anbarasan	Thermal degradation and crystallization kinetics studies on synthesized calcium mercaptosuccinate end-capped poly(ε-caprolactone) nanocomposite	Polym. Bull., pp, 1–19, (2018).	0170-0839		1.589 (4.5)
S.Sakthivel,	Quantum mechanical	Jr.Molec.	0022-2860		2.011

<b>T.Alagesan</b> , S.Muthu, Christina Susan Abraham, and E.Geetha	spectroscopic study (FT-IR and FT Raman), NBO analysis, HOMO-LUMO, first order hyperpolarizability and docking studies of a non-steroidal anti-inflammatory compound	Struct.Vol. 1156, pp. 645-656, (2018).				
K.Seevakan, A.Manikandan, P.Devendran, Y.Slimani, A.Baykal, and <b>T.Alagesan</b>	Structural, morphological and magneto-optical properties of CuMoO <sub>4</sub> electrochemical nanocatalyst as supercapacitor electrode	Ceram.Int., Vol.44, pp.20075-20083, (2018).	0272-8842	6	(6) 1.83	
K.Seevakan, A.Manikandan, P.Devendran, A. Baykal, and <b>T.Alagesan</b>	Electrochemical and magneto-optical properties of cobalt molybdate nanocatalysts as high-performance supercapacitors	Ceram. Int., Vol.44,pp.17735-17742, (2018).	0272-8842	10	(14) 1.83	
K.Seevakan, A.Manikandan, P.Devendran, A.Shameem, and <b>T.Alagesan</b>	Microwave combustion synthesis, magneto-optical and electrochemical properties of NiMoO <sub>4</sub> nanoparticles for supercapacitor application	Ceram. Int., Vol.44,pp.13879-13887, (2018)	0272-8842	16	(14) 1.83	
R.Radha, C.SenthilKumar, K.Subramanian, and <b>T.Alagesan</b>	Drone like dynamics of dromion pairs in the (2+1) AKNS equation	Comp. Maths. Appls.,Vol.75, 7, pp.2356-2364, (2018).	2067-2764	1	(4.5) 1.69	
I.Inbavalli, A. Govindarajan, and <b>T.Alagesan</b>	Instabilities in parity-time symmetric non-Kerr fiber Bragg gratings	AIP Conf. Proce.Vol.2117(1), pp.020013, (2019)	0094-243X		0.14	
S.Mahalakshmi, <b>T.Alagesan</b> , V.Parthasarathy, and R.Anbarasan	Non-Isothermal Crystallization and Degradation Kinetic Studies of Synthesized Mo-TG end Capped Poly(ε - Caprolactone)	Macromol. Res. Vol.27(4),pp.386-395, (2019).	1598-5032	1	(3) 1.758	
S. Mahalakshmi, <b>T.Alagesan</b> , V. Parthasarathy,	Non-isothermal crystallization kinetics and degradation kinetics studies on barium thioglycolate end-	Jr. Therm. Anal. Calori., Vol.135, Issue-6, pp. 3129–3140,	1388-6150		(4.5) 2.209	

Kuo-Lun Tung, and R.Anbarasan,	capped poly( $\epsilon$ -caprolactone)	(2019).		(6)
K.Seevakan, A.Manikandan, P.Devendran, A. Baykal, and <b>T.Alagesan</b>	Structural, magnetic and electrochemical characterizations of $\text{Bi}_2\text{Mo}_2\text{O}_9$ nanoparticle for supercapacitor application	Jr. Magn. Magn. Mater. Vol.486, pp. 165254, (2019).	0304-8853	2.683
S.Mahalakshmi, <b>T.Alagesan</b> , V.Parthasarathy,R .Anbarasan	Micro Structural and Non- Isothermal Crystallization and Degradation Kinetics Studies on Manganese Thioglycolate End Capped Poly ( $\epsilon$ -Caprolactone)	Polym. Engg. and Sci., Vol. 59(3), pp. 633 – 634,(2019).	0032-3888	(14) 1.92
S.Mahalakshmi, <b>T.Alagesan</b> , V.Parthasarathy, Kuo-Lun Tung, and R.Anbarasan	Crystallization and degradation kinetics studies on Cu-TG functionalized poly ( $\epsilon$ -caprolactone) by non- isothermal approach	Jr.Polym.Resear .Vol.26(6), pp. 132, (2019).	1022-9760	(4.5) 1.434
S.Mahalakshmi, V.Parthasarathy, Kuo-Lun Tung, R.Anbarasan, and <b>T.Alagesan</b>	Non-isothermal Crystallization and Degradation Kinetics of $\text{Fe}_3\text{O}_4$ ThymolblueFunctionali zed Poly( $\epsilon$ -caprolactone)	Jr. Polym. Envir.Vol.27, Issue 6, pp. 1259–1272, (2019).	1566-2543	(4.5) 2.765
S.Mahalakshmi, L.Kannammal, K.L.Tung, R.Anbarasan, V.Parthasarathy,a nd <b>T.Alagesan</b>	Evaluation of kinetic parameters for the crystallization and degradation process of synthesized strontium mercaptosuccinate functionalized poly ( $\epsilon$ - caprolactone) by non- isothermal approach	Iran. Polym. Jr., pp.1-14, (2019)	026-1265	1.707  (4.5)