Ashok C Kumbharkhane

List of Publications by Year
in descending order

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107	1,867	304743	289244
papers	citations	22	40
		h-index	g-index

107	107	107	807
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermodynamic and Dielectric Properties of Cyclohexanol-Xylene Binary Mixtures Using Dielectric Spectroscopy. Polycyclic Aromatic Compounds, 2023, 43, 1619-1627.	2.6	2
2	Study of Thermodynamic and Dielectric Parameters of Xylene and Its Isomers Using Time Domain Dielectric Spectroscopy. Polycyclic Aromatic Compounds, 2023, 43, 5227-5232.	2.6	1
3	Influence of dielectric, Electro-Optic Kerr Effect and spectroscopic characterisation on polarâ€“polar binary liquid mixture. Physics and Chemistry of Liquids, 2022, 60, 141-163.	1.2	1
4	Dielectric relaxation studies of aqueous primary amines using a time domain reflectometry. Indian Journal of Physics, 2022, 96, 3105-3115.	1.8	2
5	Dielectric relaxation study of aqueous glycol ethers with water using time domain reflectometry technique in the frequency range 10â€‰MHz to 50â€‰GHz. Ferroelectrics, 2022, 588, 65-77.	0.6	1
6	Temperature dependent Broadband dielectric relaxation study of Aqueous Polyvinylpyrrolidone (PVP) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	1
7	Cooperative dynamics in dipropylene glycolâ€“ethanol mixtures using dielectric spectroscopy. Physics and Chemistry of Liquids, 2021, 59, 657-665.	1.2	0
8	Metaphor of molecular dynamics and dielectric dispersion of morpholine with aprotic solvents. Physics and Chemistry of Liquids, 2021, 59, 480-493.	1.2	3
9	Dielectric relaxation behaviour of ethyl acetate-xylene mixtures using time domain reflectometry. Physics and Chemistry of Liquids, 2021, 59, 503-511.	1.2	7
10	Dielectric relaxation and molecular interactions study of saccharides in aqueous solutions. Carbohydrate Research, 2021, 507, 108375.	2.3	6
11	Dielectric relaxation and hydrogen bonding interaction of polyethylene glycol dimethyl ether in water mixture. Physics and Chemistry of Liquids, 2020, 58, 664-674.	1.2	3
12	Dielectric behavior of indole in the GHz region using TDR. Journal of Molecular Liquids, 2020, 299, 112137.	4.9	6
13	Dielectric relaxation study of aqueous ethylene glycol mono-methyl ether (EGME) with water using time domain reflectometry technique in the frequency range 10MHz to 50GHz. Journal of Advanced Dielectrics, 2020, 10, 2050004.	2.4	1
14	Dielectric relaxation study of aqueous diethylamine using a time domain reflectometry. Journal of Molecular Liquids, 2020, 314, 113648.	4.9	4
15	Dielectric relaxation studies of collagen â€“ surfactant complexes in aqueous buffer solution. International Journal of Biological Macromolecules, 2019, 138, 215-223.	7.5	2
16	Dielectric Relaxation and Hydration Interactions for Protic and Aprotic Ionic Liquids using Time Domain Reflectometry. Journal of Physical Chemistry B, 2019, 123, 8976-8986.	2.6	4
17	FTIR spectroscopy, quantum chemical calculations and time domain reflectometry studies on the behavior of methanol molecules in the environment of dibutyl ether. Journal of Molecular Structure, 2019, 1183, 60-69.	3.6	14
18	Dielectric spectroscopy and hydrogen bonding studies of 1-chloropropaneâ€“ethanol mixture using TDR technique. Journal of Advanced Dielectrics, 2019, 09, 1950018.	2.4	5

#	Article	IF	Citations
19	FTIR studies, DFT calculations and time domain reflectometry studies on tetrahydrofuran - methanol binary solutions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 222, 117162.	3.9	7
20	Homo/hetero interactions in the binary solutions of toluene with acetonitrile: FTIR spectroscopic, theoretical and dielectric studies. Journal of Molecular Structure, 2019, 1192, 208-216.	3.6	7
21	Dielectric dispersion, relaxation and molecular interaction of pyrazine binary mixtures. Journal of Physics Communications, 2018, 2, 035042.	1.2	8
22	Study of H1 spin lattice relaxation and dielectric relaxation in Poly(propylene glycol) system. Materials Chemistry and Physics, 2018, 209, 16-22.	4.0	4
23	Hydrogen bond interactions in the binary solutions of ethyl acetate with nitrobenzene: Spectroscopic, theoretical and dielectric studies. Journal of Molecular Liquids, 2018, 251, 385-393.	4.9	9
24	Dielectric relaxation study of aqueous tetraethylene glycol using time domain reflectometry technique in the frequency range 10â€¯MHz to 50â€¯GHz. Journal of Molecular Liquids, 2018, 272, 450-455.	4.9	12
25	High-frequency dielectric study on the hydrogen bonding interaction on aqueous Cyanoacetamide. Journal of Molecular Liquids, 2018, 272, 264-270.	4.9	4
26	Hydration dynamics of collagen in aqueous buffer solution as studied by time domain dielectric spectroscopy. International Journal of Biological Macromolecules, 2018, 118, 1811-1816.	7.5	4
27	Dielectric relaxation studies of 1,3 and 1,4-butanediolâ€“water mixtures using time domain technique. Indian Journal of Physics, 2018, 92, 1367-1372.	1.8	2
28	Temperature-dependent relaxation study of tertiary butyl alcoholâ€“water mixtures using TDR technique. Physics and Chemistry of Liquids, 2017, 55, 179-185.	1.2	3
29	Spectroscopic and time domain reflectometry studies on acetonitrile -ÂEthylene glycol binary solutions. Journal of Molecular Structure, 2017, 1136, 303-308.	3.6	13
30	Molecular interactions in ethyl acetate-chlorobenzene binary solution: Dielectric, spectroscopic studies and quantum chemical calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 178, 218-224.	3.9	7
31	Dielectric relaxation and thermodynamic study of polyhydric sugar alcohols in DMSO using TDR technique. Thermochimica Acta, 2017, 652, 97-102.	2.7	11
32	Dielectric dispersion and thermodynamic behavior of stearic acid binary mixtures with alcohol as co-solvent using time domain reflectometry. Journal of Advanced Dielectrics, 2017, 07, 1750027.	2.4	12
33	Dielectric dispersion, relaxation dynamics and thermodynamic studies of Beta-Alanine in aqueous solutions using picoseconds time domain reflectometry. Physica B: Condensed Matter, 2017, 521, 323-330.	2.7	7
34	Dielectric relaxation of Tripropylene glycolâ€“water mixture using time domain reflectometry. Physics and Chemistry of Liquids, 2017, 55, 410-418.	1.2	5
35	Relaxation dynamics and thermophysical properties of vegetable oils using time-domain reflectometry. European Biophysics Journal, 2017, 46, 283-291.	2.2	9
36	Time Domain Dielectric Spectroscopic Studies of Potassium Oleate and Cetyl Pyridinium Chloride in Acetate Buffer Solution. Macromolecular Symposia, 2017, 376, 1700003.	0.7	1

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37	Spectroscopic Characterization of Binary Polar Liquid Mixtures Containing Amino or Sulfoxide Group and Hydroxyl Group. , 2017, , 73-164.		0
38	Dielectric Relaxation and Molecular Dynamics in Associating Dipolar Liquids and Polyhydroxyl Polymers. , 2017, , 383-402.		0
39	Structural Investigation of Biomolecules Through Dielectric Parameters. , 2017, , 403-427.		0
40	Theoretical and Experimental Aspects of Time Domain Permittivity Spectroscopy. , 2017, , 1-43.		3
41	Dielectric Relaxation in Binary Polar Liquids Containing Alcohols and Molecules With â€“OH Group. , 2017, , 45-72.		0
42	Dielectric Spectroscopic Study of Molecular Interaction Between Nitriles With Water and Alcohol. , 2017, , 215-248.		0
43	Extraction of Significant Features From Permittivity Parameters of Binary Polar Liquids. , 2017, , 441-454.		0
44	Molecular Interaction in Associating and Nonassociating Polar Liquids. , 2017, , 249-331.		0
45	Microwave dielectric relaxation spectroscopy studies on associative polar binary mixtures of nitrobenzene with primary alcohols. Journal of Molecular Liquids, 2016, 222, 640-647.	4.9	22
46	Dielectric relaxation studies of binary mixture of Î²-picoline and methanol using time domain reflectometry at different temperatures. Journal of Advanced Dielectrics, 2016, 06, 1650022.	2.4	6
47	Dielectric Dispersion and Molecular Interaction in Polymer (PVA)-Surfactant (SDS) mixtures using picosecond time domain reflectometry. Journal of Molecular Liquids, 2016, 224, 1199-1204.	4.9	8
48	Time Domain Reflectometric and spectroscopic studies on tolueneÂ+Âbutyronitrile solution. Journal of Molecular Structure, 2016, 1108, 203-208.	3.6	21
49	Time domain reflectometric study on toluene + propionitrile binary mixture. Physics and Chemistry of Liquids, 2016, 54, 779-785.	1.2	9
50	Thermodynamic and Molecular Dielectric Relaxation Studies of Polarâ€“Polar Binary Mixtures Using Time Domain Reflectometry Technique. Journal of Solution Chemistry, 2016, 45, 221-234.	1.2	3
51	Dielectric relaxation and hydrogen bonding interaction in xylitolâ€“water mixtures using time domain reflectometry. Indian Journal of Physics, 2016, 90, 67-72.	1.8	7
52	Dielectric Relaxation Studies of Binary Mixture of Î±â€Picoline and Methanol Using Time Domain Reflectometry at Different Temperatures. Journal of the Chinese Chemical Society, 2015, 62, 1137-1143.	1.4	5
53	Temperature-dependent dielectric relaxation study of polyhydric alcohols (propane-1,3 and 1,2-diol) using a TDR technique. Physics and Chemistry of Liquids, 2015, 53, 307-317.	1.2	8
54	Dielectric dispersion and hydrogen bonding interactions study of aqueous D-mannitol using time domain reflectometry. Physics and Chemistry of Liquids, 2015, 53, 187-192.	1.2	7

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55	Dielectric relaxation studies of aqueous solution of polyethylene glycol 200 (PEG200), using time-domain reflectometry. Physics and Chemistry of Liquids, 2015, 53, 627-637.	1.2	3
56	Dielectric relaxation studies of binary mixture of diethylene glycol mono phenyl ether and methanol by Time Domain Reflectometry. Journal of Molecular Liquids, 2015, 211, 346-352.	4.9	14
57	Dielectric Relaxation Studies of 2-Butoxyethanol with Aniline and Substituted Anilines Using Time Domain Reflectometry. Advances in Physical Chemistry, 2014, 2014, 1-9.	2.0	9
58	Molecular interaction study of some ethylene glycol ethers in 1,4 dioxane through dielectric and volumetric properties. Journal of Molecular Liquids, 2014, 198, 347-353.	4.9	6
59	Relaxation dynamics in lens crystallin proteins: a dielectric and thermodynamic approach using TDR. RSC Advances, 2014, 4, 40711-40719.	3.6	4
60	Comparative dielectric relaxation study of pentaethylene glycol (PEG) and hexaethylene glycol (HEG) in water mixture using time domain reflectometry. Journal of Molecular Liquids, 2014, 198, 51-56.	4.9	5
61	Dielectric properties and analysis of H-bonded interaction study in complex systems of binary and ternary mixtures of polyvinyl alcohol with water and DMSO. Fluid Phase Equilibria, 2014, 382, 300-306.	2.5	24
62	Molecular interaction study of ethanol in non-polar solute using hydrogen-bonded model. Physics and Chemistry of Liquids, 2014, 52, 710-716.	1.2	3
63	Thermodynamic and dielectric relaxation study of erythritolâ€“water binary mixture using time domain reflectometry. Journal of Molecular Liquids, 2014, 199, 367-370.	4.9	13
64	Dielectric relaxation study of amines in 2,3-butanediol mixture using picosecond time domain reflectometry technique. Journal of Molecular Liquids, 2014, 190, 178-184.	4.9	6
65	Dielectric relaxation studies of binary mixture of ethylene glycol mono phenyl ether and methanol by Time Domain Reflectometry. Journal of Molecular Liquids, 2014, 193, 29-36.	4.9	19
66	Time domain dielectric relaxation studies of amphiphilics in solution state. Journal of Molecular Liquids, 2014, 194, 57-61.	4.9	11
67	Dielectric relaxation study of DNA in aqueous solution using time domain reflectometry. Indian Journal of Physics, 2013, 87, 543-550.	1.8	4
68	Dielectric relaxation study of 2 and 3-chloroaniline and 2 and 3-methoxyaniline with 1,4-dioxane mixtures using time domain technique. Journal of Molecular Liquids, 2013, 177, 426-431.	4.9	16
69	Study of hydrogen bonding and thermodynamic behavior in waterâ€“1,4-dioxane mixture using time domain reflectometry. Physica B: Condensed Matter, 2013, 421, 1-7.	2.7	28
70	Dielectric relaxation study of aqueous Î±-amylase using time domain reflectometry technique. Physics and Chemistry of Liquids, 2013, 51, 10-20.	1.2	0
71	Temperature-dependent dielectric relaxation study of 1,2,6-hexanetriol using TDR method. Physics and Chemistry of Liquids, 2012, 50, 316-323.	1.2	2
72	Dielectric relaxation study of hexamethylphosphoramideâ€“1,4-dioxane mixtures using time domain reflectometry (TDR) technique. Physics and Chemistry of Liquids, 2012, 50, 513-522.	1.2	1

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73	Dielectric relaxation study of glycineâ€“water mixtures using time domain reflectometry technique. Physics and Chemistry of Liquids, 2012, 50, 102-112.	1.2	7
74	Electrical properties and microwave dielectric behavior of holmium substituted barium zirconium titanate ceramics. Journal of Alloys and Compounds, 2012, 537, 197-202.	5.5	31
75	The study of dielectric relaxation in aqueous carbohydrates solutions using time domain reflectometry technique. Indian Journal of Physics, 2012, 86, 813-818.	1.8	11
76	Dielectric relaxation and thermodynamic properties of polyvinylpyrrolidone using time domain reflectometry. Polymer International, 2012, 61, 609-615.	3.1	18
77	Dielectric relaxation and hydrogen bonding studies of 1,3-propanediolâ€“dioxane mixtures using time domain reflectometry technique. Pramana - Journal of Physics, 2012, 78, 297-308.	1.8	12
78	Study of dielectric relaxation and hydrogen bonding in water+2-butoxyethanol mixtures using TDR technique. Fluid Phase Equilibria, 2012, 317, 96-101.	2.5	25
79	Dielectric relaxation of d-sorbitolâ€“water mixtures using a Time Domain Reflectometry Technique. Journal of Molecular Liquids, 2012, 169, 33-36.	4.9	17
80	The dielectric relaxation study of 2(2-alkoxyethoxy)ethanolâ€“water mixtures using time domain reflectometry. Journal of Molecular Liquids, 2011, 163, 70-76.	4.9	23
81	Dielectric relaxation study of poly(ethylene glycols) using TDR technique. Journal of Molecular Liquids, 2011, 164, 226-232.	4.9	62
82	Dielectric behaviour of aqueous CsCl solutions. Indian Journal of Physics, 2011, 85, 301-310.	1.8	9
83	Dielectric relaxation study of aqueous 2-ethoxyethanol using time domain reflectometry technique. Indian Journal of Physics, 2011, 85, 1603-1614.	1.8	22
84	Theoretical investigation of molecular interactions in dioxane and water using hydrogen bonding model and density functional method. International Journal of Quantum Chemistry, 2011, 111, 2972-2979.	2.0	10
85	Study of heterogeneous interaction in binary mixtures of 2-methoxyethanol-water using dielectric relaxation spectroscopy. Journal of Molecular Liquids, 2011, 161, 120-124.	4.9	31
86	Study of dielectric relaxation and thermodynamic behaviour in poly(propylene glycol) using Time Domain Reflectometry. Journal of Molecular Liquids, 2011, 160, 109-113.	4.9	19
87	Dielectric relaxation of dihydric alcoholâ€“1,4-dioxane mixtures using time domain technique. Lithuanian Journal of Physics, 2011, 51, 39-45.	0.4	4
88	Dielectric relaxation and hydrogen bond interaction study of diol-water mixtures. Indian Journal of Physics, 2010, 84, 419-429.	1.8	21
89	A diffuse bubble-like radio-halo source MRCâ€ƒ0116+111: imprint of AGN feedback in a low-mass cluster of galaxies. Monthly Notices of the Royal Astronomical Society, 2009, 399, 601-614.	4.4	11
90	Structural Behavior of Alcoholâ^'1,4-Dioxane Mixtures through Dielectric Properties Using TDR. Journal of Physical Chemistry A, 2009, 113, 10196-10201.	2.5	34

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91	Microwave Dielectric Behaviour of 1,2â€Propanediolâ€Water Mixture Studied Using Time Domain Reflectometry Technique. Journal of the Chinese Chemical Society, 2007, 54, 1457-1462.	1.4	9
92	Dielectric Properties of Ethyleneglycolâ^'1,4-Dioxane Mixtures Using TDR Method. Journal of Physical Chemistry A, 2007, 111, 2993-2998.	2.5	38
93	Dielectric relaxation studies of aqueous sucrose in ethanol mixtures using time domain reflectometry. Pramana - Journal of Physics, 2004, 62, 973-981.	1.8	9
94	Structural study of aqueous solutions of tetrahydrofuran and acetone mixtures using dielectric relaxation technique. Pramana - Journal of Physics, 1996, 46, 91-98.	1.8	43
95	A comparative dielectric relaxation study between hydrogen-and non-hydrogen-bonded liquids: Nitriles vs alcohols. Pramana - Journal of Physics, 1995, 45, 19-24.	1.8	18
96	Dielectric study of aqueous solution of acetonitrile. Pramana - Journal of Physics, 1995, 44, 405-410.	1.8	29
97	Protein Hydration Investigations with High-Frequency Dielectric Spectroscopy. The Journal of Physical Chemistry, 1994, 98, 6644-6651.	2.9	50
98	The static permittivity of binary mixtures using an improved bruggeman model. Journal of Molecular Liquids, 1994, 59, 173-177.	4.9	156
99	Dielectric relaxation studies of aqueous N,N-dimethylformamide using a picosecond time domain technique. Journal of Solution Chemistry, 1993, 22, 219-229.	1.2	158
100	Dielectric relaxation study of hexamethylphosphoramideâ€water mixtures using time domain reflectometry. Journal of Chemical Physics, 1993, 99, 2405-2409.	3.0	63
101	Dielectric study of dimethyl sulfoxideâ€“water mixtures using the time-domain technique. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 433-435.	1.7	66
102	Temperature dependent dielectric relaxation study of ethylene glycol-water mixtures. Journal of Solution Chemistry, 1992, 21, 201-212.	1.2	58
103	Structural study of amide-water mixtures using dielectric relaxation technique. Journal of Molecular Liquids, 1992, 51, 261-277.	4.9	84
104	Dielectric relaxation study and structural properties of 2-nitroacetophenone-ethanol solutions from 10 MHz to 10 GHz. Journal of Molecular Liquids, 1992, 51, 307-319.	4.9	14
105	Dielectric relaxation of tert-butyl alcoholâ€“water mixtures using a time-domain technique. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 1569-1573.	1.7	154
106	Dielectric Properties of Honey-Water Mixtures Between 10 MHz TO 10 GHz Using Time Domain Technique. Journal of Microwave Power and Electromagnetic Energy, 1991, 26, 196-201.	0.8	45
107	Dielectric relaxation spectra for N,N-Dimethylacetamide-water mixures using picosecond time domain reflectometry. Journal of Molecular Liquids, 1991, 50, 143-153.	4.9	51