

Dr R J Sengwa

List of Publications by Year in descending order

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137
papers

4,777
citations

76294

40
h-index

138417

58
g-index

138
all docs

138
docs citations

138
times ranked

2324
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric properties of low molecular weight poly(ethylene glycol)s. <i>Polymer International</i> , 2000, 49, 599-608.	1.6	157
2	ZnO nanoparticles dispersed PVA/PVP blend matrix based high performance flexible nanodielectrics for multifunctional microelectronic devices. <i>Current Applied Physics</i> , 2018, 18, 1041-1058.	1.1	137
3	Effects of different inorganic nanoparticles on the structural, dielectric and ion transportation properties of polymers blend based nanocomposite solid polymer electrolytes. <i>Electrochimica Acta</i> , 2017, 247, 924-941.	2.6	123
4	Dielectric properties of montmorillonite clay filled poly(vinyl alcohol)/poly(ethylene oxide) blend nanocomposites. <i>Composites Science and Technology</i> , 2010, 70, 1621-1627.	3.8	118
5	Role of preparation methods on the structural and dielectric properties of plasticized polymer blend electrolytes: Correlation between ionic conductivity and dielectric parameters. <i>Electrochimica Acta</i> , 2014, 142, 359-370.	2.6	99
6	Dielectric behaviour and hydrogen bond molecular interaction study of formamide-dipolar solvents binary mixtures. <i>Journal of Molecular Liquids</i> , 2009, 144, 89-96.	2.3	97
7	Investigation on the optical properties of (PVP/PVA)/Al ₂ O ₃ nanocomposite films for green disposable optoelectronics. <i>Physica B: Condensed Matter</i> , 2021, 613, 412989.	1.3	95
8	Low-frequency dielectric dispersion and microwave dielectric properties of dry and water-saturated limestones of Jodhpur region. <i>Geophysics</i> , 2006, 71, G269-G277.	1.4	87
9	Polymer nanocomposites comprising PMMA matrix and ZnO, SnO ₂ , and TiO ₂ nanofillers: A comparative study of structural, optical, and dielectric properties for multifunctional technological applications. <i>Optical Materials</i> , 2021, 113, 110837.	1.7	79
10	Low frequency dielectric relaxation processes and ionic conductivity of montmorillonite clay nanoparticles colloidal suspension in poly(vinyl pyrrolidone)/ethylene glycol blends. <i>EXPRESS Polymer Letters</i> , 2008, 2, 800-809.	1.1	78
11	Effects of plasticizer and nanofiller on the dielectric dispersion and relaxation behaviour of polymer blend based solid polymer electrolytes. <i>Current Applied Physics</i> , 2015, 15, 135-143.	1.1	76
12	Dielectric behaviour of propylene glycol-water mixtures studied by time domain reflectometry. <i>Molecular Physics</i> , 2001, 99, 1805-1812.	0.8	75
13	Structural characterization of hydrophilic polymer blends/montmorillonite clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	75
14	Electrochemical performance of Li ⁺ -ion conducting solid polymer electrolytes based on PEO/PMMA blend matrix incorporated with various inorganic nanoparticles for the lithium ion batteries. <i>Composites Communications</i> , 2018, 10, 11-17.	3.3	75
15	Dielectric and electrical properties of PEO/Al ₂ O ₃ nanocomposites. <i>Journal of Alloys and Compounds</i> , 2017, 701, 652-659.	2.8	73
16	Characterization of heterogeneous interaction in binary mixtures of ethylene glycol oligomer with water, ethyl alcohol and dioxane by dielectric analysis. <i>Journal of Molecular Liquids</i> , 2007, 130, 119-131.	2.3	68
17	Predominantly chain segmental relaxation dependent ionic conductivity of multiphase semicrystalline PVDF/PEO/LiClO ₄ solid polymer electrolytes. <i>Electrochimica Acta</i> , 2020, 338, 135890.	2.6	68
18	Dielectric Parameters and Hydrogen Bond Interaction Study of Binary Alcohol Mixtures. <i>Journal of Solution Chemistry</i> , 2008, 37, 137-153.	0.6	67

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19	Dielectric relaxation, Li-ion transport, electrochemical, and structural behaviour of PEO/PVDF/LiClO ₄ /TiO ₂ /PC-based plasticized nanocomposite solid polymer electrolyte films. <i>Composites Communications</i> , 2020, 17, 182-191.	3.3	67
20	Dielectric properties and fluctuating relaxation processes of poly(methyl methacrylate) based polymeric nanocomposite electrolytes. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 765-774.	1.9	66
21	Nonlinear optical and dielectric properties of TiO ₂ nanoparticles incorporated PEO/PVP blend matrix based multifunctional polymer nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12275-12294.	1.1	66
22	Investigation of alumina nanofiller impact on the structural and dielectric properties of PEO/PMMA blend matrix-based polymer nanocomposites. <i>Advanced Composites and Hybrid Materials</i> , 2019, 2, 162-175.	9.9	65
23	Effects of preparation methods on structure, ionic conductivity and dielectric relaxation of solid polymeric electrolytes. <i>Materials Chemistry and Physics</i> , 2013, 142, 172-181.	2.0	62
24	Dielectric properties and hydrogen bonding interaction behaviour in binary mixtures of glycerol with amides and amines. <i>Fluid Phase Equilibria</i> , 2008, 266, 54-58.	1.4	61
25	Dielectric spectroscopy of hydrophilic polymersâ€”montmorillonite clay nanocomposite aqueous colloidal suspension. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 336, 79-87.	2.3	60
26	Characterization of Heterogeneous Interaction Behavior in Ternary Mixtures by a Dielectric Analysis: Equi-Molar H-bonded Binary Polar Mixtures in Aqueous Solutions. <i>Journal of Solution Chemistry</i> , 2006, 35, 1037-1055.	0.6	55
27	Static Dielectric Constants and Kirkwood Correlation Factor of the Binary Mixtures of N-Methylformamide with Formamide, N,N-Dimethylformamide and N,N-Dimethylacetamide. <i>Journal of Solution Chemistry</i> , 2009, 38, 763-769.	0.6	55
28	Broadband Dielectric Study of Dynamics of Poly(vinyl pyrrolidone)â”Ethylene Glycol Oligomer Blends. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4953-4957.	1.1	52
29	Dielectric dispersion study of coexisting phases of aqueous polymeric solution: Poly(vinyl) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	1.8	51
30	Polymer Compositional Ratio-Dependent Morphology, Crystallinity, Dielectric Dispersion, Structural Dynamics, and Electrical Conductivity of PVDF/PEO Blend Films. <i>Macromolecular Research</i> , 2019, 27, 1009-1023.	1.0	51
31	H-bonded molecular interaction study on binary mixtures of mono alkyl ethers of ethylene glycol with different polar solvents by concentration dependent dielectric analysis. <i>Physics and Chemistry of Liquids</i> , 2006, 44, 637-653.	0.4	50
32	A comparative dielectric study of ethylene glycol and propylene glycol at different temperatures. <i>Journal of Molecular Liquids</i> , 2003, 108, 47-60.	2.3	47
33	Dielectric dispersion studies of poly(vinyl alcohol) in aqueous solutions. <i>Polymer International</i> , 2000, 49, 1314-1320.	1.6	46
34	Dielectric characterization and molecular interaction behaviour in binary mixtures of amides with dimethylsulphoxide and 1,4-dioxane. <i>Journal of Molecular Liquids</i> , 2010, 151, 17-22.	2.3	46
35	Morphological, structural, dielectric and electrical properties of PEOâ€”ZnO nanodielectric films. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	46
36	Tunable β -phase crystals, degree of crystallinity, and dielectric properties of three-phase PVDF/PEO/SiO ₂ hybrid polymer nanocomposites. <i>Materials Research Bulletin</i> , 2020, 129, 110901.	2.7	46

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37	Investigation of correlation between dielectric parameters and nanostructures in aqueous solution grown poly(vinyl alcohol)-montmorillonite clay nanocomposites by dielectric relaxation spectroscopy. <i>EXPRESS Polymer Letters</i> , 2010, 4, 559-569.	1.1	45
38	Effect of intercalated and exfoliated montmorillonite clay on the structural, dielectric and electrical properties of plasticized nanocomposite solid polymer electrolytes. <i>Composites Communications</i> , 2017, 5, 1-7.	3.3	42
39	Effect of melt compounding temperature on dielectric relaxation and ionic conduction in PEO- NaClO_4 -MMT nanocomposite electrolytes. <i>Ionics</i> , 2010, 16, 697-707.	1.2	41
40	Effect of different anions of lithium salt and MMT nanofiller on ion conduction in melt-compounded PEO-LiX-MMT electrolytes. <i>Ionics</i> , 2012, 18, 379-384.	1.2	41
41	Dielectric constant and molecular association in binary mixtures of N,N-dimethylethanolamine with alcohols and amides. <i>Fluid Phase Equilibria</i> , 2009, 285, 50-53.	1.4	40
42	Static Permittivities of Isomeric Butanol Mixtures at Temperatures from (288.15 to 308.15) K. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3164-3170.	1.0	40
43	Dielectric dispersion and relaxation studies of melt compounded poly(ethylene oxide)/silicon dioxide nanocomposites. <i>Polymer Bulletin</i> , 2015, 72, 2591-2604.	1.7	40
44	Characterization of ionic conduction and electrode polarization relaxation processes in ethylene glycol oligomers. <i>Polymer Bulletin</i> , 2008, 60, 689-700.	1.7	39
45	Temperature dependent static dielectric constant and viscosity behaviour of glycerol-amide binary mixtures: Characterization of dominant complex structures in dielectric polarization and viscous flow processes. <i>Journal of Molecular Liquids</i> , 2010, 154, 117-123.	2.3	39
46	Investigation on Structural and Dielectric Properties of Silica Nanoparticles Incorporated Poly(Ethylene Oxide)/Poly(Vinyl Pyrrolidone) Blend Matrix Based Nanocomposites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 592-607.	1.9	38
47	Dielectric Dispersion Study of Poly(vinyl Pyrrolidone)-Polar Solvent Solutions in the Frequency Range 20 Hz-1 MHz. <i>Journal of Macromolecular Science - Physics</i> , 2007, 46, 717-747.	0.4	37
48	Influence of solid polymer electrolyte preparation methods on the performance of (PEO-PMMA)-LiBF ₄ films for lithium-ion battery applications. <i>Polymer Bulletin</i> , 2018, 75, 5645-5666.	1.7	37
49	Dielectric and optical properties of alumina and silica nanoparticles dispersed poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Research, 2021, 28, 1.	1.2	37
50	Solvent effects on the dielectric dispersion of poly(vinyl pyrrolidone)-poly(ethylene glycol) blends. <i>Colloid and Polymer Science</i> , 2007, 285, 1237-1246.	1.0	36
51	Influences of ultrasonic- and microwave-irradiated preparation methods on the structural and dielectric properties of (PEO-PMMA)-LiCF ₃ SO ₃ -x wt% MMT nanocomposite electrolytes. <i>Ionics</i> , 2015, 21, 95-109.	1.2	36
52	Nanofiller controllable optical parameters and improved thermal properties of (PVP/PEO)/Al ₂ O ₃ and (PVP/PEO)/SiO ₂ nanocomposites. <i>Optik</i> , 2021, 233, 166594.	1.4	36
53	Structural and dielectric characterization of (PVP/PEO)/Al ₂ O ₃ nanocomposites for biodegradable nanodielectric applications. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 344-353.	9.9	35
54	Dielectric relaxation processes and ionic conduction behaviour in poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (oxide)-r Science, 2009, 287, 1013-1024.	1.0	34

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55	Dielectric properties of binary and ternary mixtures of alcohols: Analysis of H-bonded interaction in complex systems. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4570-4574.	1.5	33
56	Static permittivity and molecular interactions in binary mixtures of ethanolamine with alcohols and amides. <i>Fluid Phase Equilibria</i> , 2010, 293, 137-140.	1.4	33
57	A comparative study of different metal oxide nanoparticles dispersed PVDF/PEO blend matrix-based advanced multifunctional nanodielectrics for flexible electronic devices. <i>Materials Today Communications</i> , 2020, 25, 101380.	0.9	32
58	The study of dielectric relaxation in propylene glycolâ€“poly(propylene glycol) mixtures. <i>Polymer</i> , 2002, 43, 1467-1471.	1.8	31
59	Dielectric spectroscopy and confirmation of ion conduction mechanism in direct melt compounded hot-press polymer nanocomposite electrolytes. <i>Ionics</i> , 2011, 17, 811-819.	1.2	30
60	Study of time-ageing effect on the ionic conduction and structural dynamics in solid polymer electrolytes by dielectric relaxation spectroscopy. <i>Solid State Ionics</i> , 2018, 324, 247-259.	1.3	30
61	Impact of PVDF/PEO blend composition on the β -phase crystallization and dielectric properties of silica nanoparticles incorporated polymer nanocomposites. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	30
62	Effectively improved ionic conductivity of montmorillonite clay nanoplatelets incorporated nanocomposite solid polymer electrolytes for lithium ion-conducting devices. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	30
63	Structural, dielectric dispersion and relaxation, and optical properties of multiphase semicrystalline PEO/PMMA/ZnO nanocomposites. <i>Composite Interfaces</i> , 0, , 1-16.	1.3	30
64	Poly(vinyl pyrrolidone) matrix and SiO ₂ , Al ₂ O ₃ , SnO ₂ , ZnO, and TiO ₂ nanofillers comprise biodegradable nanocomposites of controllable optical properties for optoelectronic applications. <i>Optik</i> , 2021, 241, 167215.	1.4	30
65	Toward multifunctionality of PEO/PMMA/MMT hybrid polymer nanocomposites: Promising morphological, nanostructural, thermal, broadband dielectric, and optical properties. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 166, 110708.	1.9	30
66	Multifunctional (PVP/PEO)/SnO ₂ nanocomposites of tunable optical and dielectric properties. <i>Optik</i> , 2020, 221, 165368.	1.4	29
67	Study of static permittivity and hydrogen bonded structures in amideâ€“alcohol mixed solvents. <i>Thermochimica Acta</i> , 2010, 506, 47-51.	1.2	28
68	Dielectric and electrical characterization of (PEOâ€“PMMA)â€“LiBF ₄ â€“EC plasticized solid polymer electrolyte films. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	28
69	Characterization of Heterogeneous Interaction Behaviour in Ternary Mixtures by Dielectric Analysis: The H-Bonded Binary Polar Mixture in Non-Polar Solvent. <i>Bulletin of the Korean Chemical Society</i> , 2006, 27, 718-724.	1.0	28
70	Nanofiller concentration-dependent appreciably tailorable and multifunctional properties of (PVP/PVA)/SnO ₂ nanocomposites for advanced flexible device technologies. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9661-9674.	1.1	27
71	Intercalated clay structures and amorphous behavior of solution cast and melt pressed poly(ethylene) Tj ETQq1 1 0,784314 rgBT /Overlo	1.3	26
72	A comparative study of non-polar solvents effect on dielectric relaxation and dipole moment of binary mixtures of mono alkyl ethers of ethylene glycol and of diethylene glycol with ethyl alcohol. <i>Journal of Molecular Liquids</i> , 2006, 123, 92-104.	2.3	25

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73	Dielectric spectroscopy and viscosity studies of aqueous poly(ethylene oxide) and poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 467	0.9	25
74	Static permittivities of n-propanol mixtures with ethanol, isomers of propanol, and butanol at temperature (288.15â€“308.15) K. Journal of Molecular Liquids, 2013, 179, 72-77.	2.3	25
75	Dielectric relaxation spectroscopy and X-ray diffraction studies of poly(ethylene oxide)â€“lithium perchlorate electrolytes. Indian Journal of Physics, 2014, 88, 461-470.	0.9	24
76	Characterization of relaxation processes over static permittivity frequency regime and compliance of the Stokes-Einstein-Nernst relation in propylene carbonate. Journal of Molecular Liquids, 2017, 225, 42-49.	2.3	24
77	Solvent effects on microwave dielectric relaxation in poly(ethylene glycols). Polymer International, 1998, 45, 43-46.	1.6	23
78	Dielectric relaxation and molecular dynamics in poly(vinyl pyrrolidone)â€“ethyl alcohol mixtures in pure liquid state and in non-polar solvent. Polymer, 2003, 44, 2577-2583.	1.8	23
79	Characterization of solvent effect on low-frequency dielectric dispersion and relaxation behaviour of ethylene glycol oligomers. Journal of Molecular Liquids, 2008, 141, 73-93.	2.3	23
80	Dielectric properties and structural dynamics of melt compounded hot-pressed poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467	0.8	23
81	Dynamic structure of poly(vinyl pyrrolidone)/ethyl alcohol mixtures studied by time domain reflectometry. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1134-1143.	2.4	22
82	Effectively nanofiller concentration tunable dielectric properties of PVP/SnO2 nanodielectrics. Materials Letters, 2020, 273, 127913.	1.3	22
83	Significantly enhanced dielectric properties and chain segmental dynamics of PEO/SnO2 nanocomposites. Polymer Bulletin, 2021, 78, 2357-2373.	1.7	22
84	Dielectric relaxation in mono alkyl ethers of ethylene glycol at microwave frequencies. Journal of Molecular Liquids, 1988, 39, 43-52.	2.3	21
85	Temperature dependent association and relaxation in monoalkyl ethers of ethylene glycol and of diethylene glycol in dilute solutions of benzene from static and complex microwave dielectric measurements. Journal of Molecular Liquids, 1999, 82, 231-243.	2.3	21
86	Dielectric behaviour and relaxation processes of montmorillonite clay nanoâ€“platelet colloidal suspensions in poly(vinyl pyrrolidone)â€“ethylene glycol oligomer blends. Polymer International, 2009, 58, 781-789.	1.6	21
87	Dielectric properties of PEOâ€“PVPâ€“MMT nanocomposite hydrocolloids. Indian Journal of Physics, 2012, 86, 335-340.	0.9	21
88	Characterization of conductivity relaxation processes induced by charge dynamics and hydrogen-bond molecular interactions in binary mixtures of propylene carbonate with acetonitrile. Journal of Molecular Liquids, 2017, 231, 491-498.	2.3	21
89	Microwave dielectric relaxation and molecular dynamics in binary mixtures of poly(propylene glycol) 2000 and poly(ethylene glycol)s of varying molecular weight in dilute solution. Polymer International, 2001, 50, 433-441.	1.6	19
90	Synergistic effects of salt concentration and polymer blend composition on the crystal phases, dielectric relaxation, and ion conduction in PVDF/PEO/LiCF3SO3 solid polymer electrolytes. Ionics, 2020, 26, 2259-2275.	1.2	19

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91	Static permittivities of ethanol mixtures with isomers of propanol and butanol at temperatures from 288.15 to 308.15 K. <i>Physics and Chemistry of Liquids</i> , 2013, 51, 532-546.	0.4	17
92	Structural and dielectric studies of amorphous and semicrystalline polymers blend-based nanocomposite electrolytes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	17
93	Microwave dielectric relaxation and molecular dynamics in binary mixtures of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.6	16
94	Dielectric behaviour and relaxation in poly(propylene glycol)-water mixtures studied by time domain reflectometry. <i>Polymer International</i> , 2004, 53, 744-748.	1.6	16
95	Dielectric Relaxations and Structures of Nanoclay in Solution Cast Poly(Ethylene Oxide)-Montmorillonite Clay Nanocomposites. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 1313-1324.	0.4	16
96	Characterization of Dominant Hydrogen Bonded Complex Structures of Dielectric Polarization and Viscous Flow Processes in Glycerol-Formamide Binary Mixtures. <i>Journal of Solution Chemistry</i> , 2011, 40, 154-163.	0.6	16
97	Anomalous behavior of the dielectric and electrical properties of polymeric nanodielectric poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.3	16
98	Dielectric and electrical behaviour over the static permittivity frequency regime, the refractive indices and viscosities of PC-PEG binary mixtures. <i>Journal of Molecular Liquids</i> , 2018, 252, 339-350.	2.3	16
99	Enhanced Dielectric Properties of the ZnO and TiO ₂ Nanoparticles Dispersed Poly(Vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 853-866.	0.4	16
100	Dielectric polarization and relaxation processes of the lithium-ion conducting PEO/PVDF blend matrix-based electrolytes: effect of TiO ₂ nanofiller. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	16
101	PVA/MMT and (PVA/PVP)/MMT hybrid nanocomposites for broad-range radio frequency tunable nanodielectric applications. <i>Materials Letters</i> , 2021, 299, 130081.	1.3	16
102	Dielectric relaxation in mono alkyl ethers of diethylene glycol at microwave frequencies. <i>Journal of Molecular Liquids</i> , 1989, 40, 237-250.	2.3	15
103	Dielectric Relaxation Studies of Oligether of Ethylene Glycol at Microwave Frequencies. <i>Bulletin of the Chemical Society of Japan</i> , 1991, 64, 2030-2031.	2.0	15
104	Microwave dielectric relaxation in binary mixtures of poly(ethylene glycols) in solution. <i>Polymer International</i> , 1998, 45, 202-206.	1.6	15
105	Dielectric properties of binary and ternary mixtures of some aliphatic alcohols: analysis of H-bonded interaction in complex systems. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 29-40.	0.4	15
106	Effects of ultrasonic assisted processing and clay nanofiller on dielectric properties and lithium ion transport mechanism of poly(methyl methacrylate) based plasticized polymer electrolytes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	15
107	Effect of ionic contaminants on dielectric dispersion and relaxation processes over static permittivity frequency region in neat liquid poly(ethylene glycol). <i>Journal of Molecular Liquids</i> , 2016, 220, 1042-1048.	2.3	15
108	Comprehensive characterization of glycerol/ZnO green nanofluids for advances in multifunctional soft material technologies. <i>Journal of Molecular Liquids</i> , 2022, 355, 118925.	2.3	14

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109	Dielectric behaviour and molecular association in monoalkyl ethers of ethylene glycol and of diethylene glycol in pure liquid state. <i>Journal of Molecular Liquids</i> , 1990, 47, 53-62.	2.3	13
110	Dielectric relaxation in poly(ethylene glycols) at 9.83 GHz. <i>Polymer International</i> , 1992, 29, 25-28.	1.6	13
111	Microwave dielectric relaxation studies of some ethylene oxide condensation products in pure liquid state. <i>Journal of Molecular Liquids</i> , 1994, 62, 139-146.	2.3	13
112	Dielectric properties and structures of melt- ϵ -compounded poly(ethylene oxide)- ϵ -montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4847-4853.	1.3	13
113	Dielectric Dispersion and Relaxation in Polymer Blend Based Nanodielectric Film. <i>Macromolecular Symposia</i> , 2016, 362, 132-138.	0.4	13
114	Thermally improved crystalline phase and intercalated $\langle \text{sc} \rangle$ PEO $\langle / \text{sc} \rangle$ / $\langle \text{sc} \rangle$ OMMT $\langle / \text{sc} \rangle$ nanocomposites for high to ultrahigh radio frequency range low- ϵ permittivity nanodielectrics. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51599.	1.3	13
115	Ionic conduction in binary mixtures of dipolar liquids. <i>Journal of Molecular Liquids</i> , 2012, 175, 33-37.	2.3	12
116	Crystalline Phases Thermal Behaviour, Optical Energy Band Gap, and Broadband Radio Wave Frequency Dielectric Properties of PEO/PVDF Blend Films. <i>Macromolecular Research</i> , 2022, 30, 460-469.	1.0	12
117	Crystalline phases thermal behaviour and radio frequencies dielectric properties of PVDF/PEO/metal oxides hybrid polymer nanocomposite films. <i>Journal of Polymer Research</i> , 2022, 29, .	1.2	11
118	Static dielectric constants of the binary mixtures of N-methylformamide with water, ethyl alcohol, ethylene glycol, dimethylsulphoxide, acetone and 1,4-dioxane. <i>Philosophical Magazine Letters</i> , 2010, 90, 463-470.	0.5	10
119	Dielectric Dispersion and Electric Relaxation Processes Induced by Ionic Conduction in Formamide, 2-Aminoethanol and Their Binary Mixtures. <i>Journal of Solution Chemistry</i> , 2013, 42, 1960-1975.	0.6	10
120	Broadband Radio Frequency Dielectric Permittivity and Electrical Conductivity of Dispersed Tin Oxide and Silica Nanoparticles in Poly(Ethylene Oxide)/Poly(Methyl Methacrylate) Blend Matrix-Based Nanocomposites for Nanodielectric Applications. <i>Journal of Macromolecular Science - Physics</i> , 2022, 61, 111-120.	0.4	10
121	Microwave dielectric relaxation study of poly(propylene glycol) in dilute solution. <i>Polymer International</i> , 2000, 49, 1308-1313.	1.6	9
122	Chain length effect on dynamical structure of poly (vinyl pyrrolidone)-polar solvent mixtures in dilute solution of dioxane studied by microwave dielectric relaxation measurement. <i>Pramana - Journal of Physics</i> , 2006, 67, 375-381.	0.9	9
123	Microwave dielectric spectra and molecular relaxation in formamide- ϵ -N,N-dimethylformamide binary mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 82, 279-282.	2.0	9
124	Superior optical and dielectric properties of ultrasonic-assisted solution-cast prepared PMMA/MMT nanocomposite films. <i>Functional Composites and Structures</i> , 2021, 3, 025008.	1.6	9
125	Anomalous dielectric behaviour of poly(vinyl alcohol)-silicon dioxide (PVA-SiO ₂) nanocomposites. <i>AIP Conference Proceedings</i> , 2016, . .	0.3	8
126	Static permittivity, density, speed of sound, and refractive index of 2-propoxyethanol mixtures with water in a wide temperature range. <i>Journal of Chemical Thermodynamics</i> , 2016, 102, 164-177.	1.0	8

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127	Static permittivities, viscosities, refractive indices and electrical conductivities of the binary mixtures of acetonitrile with poly(ethylene glycol)-200 at temperatures 288.15â€“318.15â€“K. Journal of Molecular Liquids, 2018, 271, 128-135.	2.3	7
128	Probing the dielectric relaxation processes and their correlation with ions transportation in the complexes of plasticized nanocomposite solid polymer electrolyte. Indian Journal of Physics, 2019, 93, 1545-1558.	0.9	7
129	Microwave absorption in oligomers of ethylene glycol. Indian Journal of Biochemistry and Biophysics, 1999, 36, 325-9.	0.2	7
130	Studies on Hydrogen-Bond Interactions in Ternary Mixtures of Polar Solvents by Dielectric Constant Measurements. International Journal of Thermophysics, 2011, 32, 2050-2061.	1.0	5
131	Investigations on ionic conduction in amides+glycerol binary mixtures. Journal of Molecular Liquids, 2012, 167, 99-102.	2.3	5
132	Temperature dependent dielectric properties and ion transportation in solid polymer electrolyte for lithium ion batteries. AIP Conference Proceedings, 2016, , .	0.3	4
133	Broadband Dielectric Study on Dynamics of Poly(vinyl pyrrolidone)-Poly(ethylene glycol) Blend. AIP Conference Proceedings, 2004, , .	0.3	2
134	Dielectric relaxation in o-chlorobenzaldehyde and o-methoxybenzaldehyde at microwave frequencies. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 2179.	1.7	1
135	Dielectric relaxation in benzotrihalides at microwave frequencies. Journal of Molecular Liquids, 1988, 38, 55-62.	2.3	0
136	Microwave dielectric relaxation in chemical industries solvents. , 0, , .		0
137	Density dependence complex dielectric constant of pulverized limestone-coal mixtures at 10.1 GHz. , 2008, , .		0