Ravindra Kumar Gupta

List of Publications by Year
in descending order

67	1,336	394421 19	377865 34
papers	citations	h-index	g-index

67	67	67	1422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superionic solid: composite electrolyte phase â€“ an overview. Journal of Materials Science, 1999, 34, 1131-1162.	3.7	272
2	Donor-Ï€â€“Acceptor Based Stable Porphyrin Sensitizers for Dye-Sensitized Solar Cells: Effect of Ï€-Conjugated Spacers. Journal of Physical Chemistry C, 2017, 121, 6464-6477.	3.1	101
3	Vibrational spectroscopic studies of solâ€“gel derived physical and chemical bonded ORMOSILs. Journal of Non-Crystalline Solids, 2005, 351, 372-379.	3.1	85
4	More stable and more efficient alternatives of Z-907: carbazole-based amphiphilic Ru(<scp>ii</scp>) sensitizers for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 27078-27087.	2.8	41
5	Near-infrared squaraine co-sensitizer for high-efficiency dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2016, 18, 14279-14285.	2.8	41
6	Ionic transport in the (Aglâ^¶AgCl) mixed-system. Journal of Materials Science, 1994, 29, 3673-3677.	3.7	32
7	Estimation of energies of Ag+ ion formation and migration using transient ionic current (TIC) technique. Solid State Ionics, 1994, 74, 137-140.	2.7	32
8	Effect of succinonitrile on electrical, structural, optical, and thermal properties of [poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 159-164.	5.2	32
9	A comparative study of Ru(<scp>ii</scp>) cyclometallated complexes versus thiocyanated heteroleptic complexes: thermodynamic force for efficient dye regeneration in dye-sensitized solar cells and how low could it be?. Physical Chemistry Chemical Physics, 2014, 16, 14874-14881.	2.8	31
10	Stable and charge recombination minimized Ï€-extended thioalkyl substituted tetrathiafulvalene dye-sensitized solar cells. Materials Chemistry Frontiers, 2017, 1, 460-467.	5.9	30
11	Neutral and anionic tetrazole-based ligands in designing novel ruthenium dyes for dye-sensitized solar cells. Journal of Power Sources, 2016, 307, 416-425.	7.8	27
12	Electrical and electrochemical properties of a new silver tungstate glass system: x60.75AgI: 0.25AgCl9: (1?x)6Ag2O: WO39. Solid State Ionics, 2004, 171, 199-205.	2.7	26
13	Poly(ethylene oxide)â€‰:â€‰succinonitrileâ€”a polymeric matrix for fast-ion conducting redox-couple solid electrolytes. Journal Physics D: Applied Physics, 2011, 44, 205106.	2.8	25
14	Insight into Al doping effect on photodetector performance of CdS and CdS:Mg films prepared by self-controlled nebulizer spray technique. Journal of Alloys and Compounds, 2022, 892, 160801.	5.5	24
15	Effects of solvent and chelating agent on synthesis of solid oxide fuel cell perovskite, La0.8Sr0.2CrO3â^'Î´. Materials Research Bulletin, 2008, 43, 207-221.	5.2	22
16	Tailoring the structure-morphology-vibrational-optical-dielectric and electrical characteristics of Ce@NiO NPs produced by facile combustion route for optoelectronics. Materials Science in Semiconductor Processing, 2021, 126, 105647.	4.0	22
17	Plasticizing Effect of K⁺ Ions and Succinonitrile on Electrical Conductivity of [Poly(ethylene oxide)â€“Succinonitrile]/Klâ€“I₂ Redox-Couple Solid Polymer Electrolyte. Journal of Physical Chemistry B, 2013, 117, 7465-7471.	2.6	20
18	Effect of spacers and anchoring groups of extended Ï€-conjugated tetrathiafulvalene based sensitizers on the performance of dye sensitized solar cells. Sustainable Energy and Fuels, 2017, 1, 345-353.	4.9	20

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19	[0.75AgI :0.25AgCl] quenched system: a better choice as host compound in place of AgI to prepare Ag+ ion conducting superionic glasses and composites. Journal of Non-Crystalline Solids, 1995, 181, 110-115.	3.1	19
20	A study of ionic transport properties on a new Ag+-ion-conducting composite electrolyte system: (1-x)[0.75AgI : 0.25AgCl] :xSiO2. Journal Physics D: Applied Physics, 1998, 31, 2854-2860.	2.8	19
21	One-pot flash combustion synthesis of Fe@NiO nanocomposites for supercapacitor applications. Ceramics International, 2021, 47, 9024-9033.	4.8	19
22	Effects of pH and Dye Concentration on the Optical and Structural Properties of Coumarin-4 Dye-Doped SiO2-PDMS Xerogels. Journal of Sol-Gel Science and Technology, 2003, 28, 279-288.	2.4	18
23	Transport property and battery discharge characteristic studies on 1â^'x(0.75AgIâ^¶0.25AgCl)â^¶ xAl2O3 composite electrolyte system. Journal of Materials Science, 1995, 30, 3612-3618.	3.7	17
24	Effects of anion and synthesis route on the structure of (La0.9 Sr0.1) (Cr0.85 Fe0.05 Co0.05 Ni0.05)O3â^'Î´ perovskite and removal of impurity phases. Solid State Ionics, 2007, 178, 1617-1626.	2.7	17
25	Characterization of basic transport properties in a new fast Ag+ ion conducting composite electrolyte system: (1â^'x)[0.75AgI:0.25AgCl]:xZrO2. Solid State Ionics, 2000, 136-137, 473-478.	2.7	16
26	Transport property and mixed former effect studies on a new fast Ag+ion conducting glass system: 0.7[0.75AgI : 0.25AgCl] : 0.3 [Ag2O : {xB2O3: (1-x)MoO3}]. Journal Physics D: Applied Physics, 2002, 35, 810-815.	2.8	16
27	Transport properties of a new Li+ion-conducting ormolyte: (SiO2â€"PEG)â€"LiCF3SO3. Journal of Materials Chemistry, 2002, 12, 3779-3782.	6.7	16
28	Thiocyanate-free asymmetric ruthenium(II) dye sensitizers containing azole chromophores with near-IR light-harvesting capacity. Journal of Power Sources, 2016, 331, 100-111.	7.8	16
29	Title is missing!. Journal of Materials Science, 1997, 32, 3327-3333.	3.7	15
30	Ion transport and solid state battery studies on a new silver molybdate superionic glass system: x[0.75AgI: 0.25AgCl]: (1-x)[Ag2O: MoO3]. Ionics, 2002, 8, 426-432.	2.4	13
31	Effect of different auxiliary ligands and anchoring ligands on neutral thiocyanate-free ruthenium(II) dyes bearing tetrazole chromophores for dye-sensitized solar cells. Dyes and Pigments, 2017, 140, 354-362.	3.7	13
32	Investigation on transport properties of the silver ion conducting composite electrolyte. Solid State Ionics, 1994, 72, 314-317.	2.7	12
33	A Detailed Investigation into the Electrical Conductivity and Structural Properties of [Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overl Polymer Electrolytes. Bulletin of the Korean Chemical Society, 2017, 38, 356-363.	1.9	12
34	Heteroleptic Ru(<scp>ii</scp>) cyclometalated complexes derived from benzimidazole-phenyl carbene ligands for dye-sensitized solar cells: an experimental and theoretical approach. Materials Chemistry Frontiers, 2017, 1, 947-957.	5.9	12
35	Structural study of a solâ€"gel derived novel solid oxide fuel cell perovskite: (La1â^'xSrx)(Cr0.85Fe0.05Co0.05Ni0.05)O3â^'Î´. Journal of Physics Condensed Matter, 2007, 19, 196209.	1.8	11
36	Characterization of perovskite-type cathode, La0.75Sr0.25 Mn0.95â^'xCox Ni0.05O3+Î´ (0.1â‰¤xâ‰¤0.3), for intermediate-temperature solid oxide fuel cells. Journal of Power Sources, 2009, 187, 371-377.	7.8	11

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37	Utilization of poly(ethylene terephthalate) waste for preparing disodium terephthalate and its application in a solid polymer electrolyte. Journal of Applied Polymer Science, 2019, 136, 47612.	2.6	11
38	Estimation of ionic drift velocity on some fast Ag+ ion conducting systems. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 57, 46-51.	3.5	10
39	Effect of strontium ion doping on structural, thermal, morphological and electrical properties of a co-doped lanthanum manganite system. Journal of Alloys and Compounds, 2010, 490, 56-61.	5.5	10
40	Transport properties and battery discharge characteristics of the Ag+ ion conducting composite electrolyte system (1â^'x)[0.75AgI: 0.25AgCl]: xFe2O3. Ionics, 2004, 10, 113-117.	2.4	9
41	Cyclometalated ruthenium complexes with 6-(ortho-methoxyphenyl)-2,2â€²-bipyridine as panchromatic dyes for dye-sensitized solar cells. Journal of Organometallic Chemistry, 2017, 833, 61-70.	1.8	9
42	Studies on ionic transport properties of a new Ag+ ion conducting composite electrolyte system (1â^'x)[0Â·75 AgI: 0Â·25 AgCl]:xSnO2. Bulletin of Materials Science, 1996, 19, 573-579.	1.7	8
43	Thermal, micro-structural, and electrical properties of a La1â^'x Sr x Mn0.85Fe0.05Co0.05Ni0.05O3+Î´ (x =) Tj ETQq1 1 0.784314 rgBT /O	3.4	8
44	Study of Donorâ€“Acceptorâ€“Ï€â€“Acceptor Architecture Sensitizers with Benzothiazole Acceptor for Dyeâ€sensitized Solar Cells. Energy Technology, 2016, 4, 458-468.	3.8	8
45	Cationic effect on dye-sensitized solar cell properties using electrochemical impedance and transient absorption spectroscopy techniques. Journal Physics D: Applied Physics, 2017, 50, 245501.	2.8	8
46	Electrical, structural, and thermal properties of succinonitrile-LiI-I2 redox-mediator. Solid State Ionics, 2018, 326, 166-172.	2.7	8
47	Effect of LaponiteÂ® nanoclay dispersion on electrical, structural, and photovoltaic properties of dispersed [Poly(Ethylene oxide)-succinonitrile]-LiI-I2 solid polymer electrolyte. Journal of Power Sources, 2021, 490, 229509.	7.8	8
48	Preparation and Characterization of Hybrid Silica-Poly(ethylene glycol) Sonogel. Bulletin of the Korean Chemical Society, 2002, 23, 884-890.	1.9	8
49	Mechanical, electrical and micro-structural properties of La0.6Sr0.4Co0.2Fe0.8O3perovskite-based ceramic foams. Journal Physics D: Applied Physics, 2008, 41, 032003.	2.8	7
50	Highly Conductive Redox-Couple Solid Polymer Electrolyte System: Blend-KI-I₂ for Dye-Sensitized Solar Cells. Advances in OptoElectronics, 2011, 2011, 1-5.	0.6	7
51	Improved cell efficiency of [poly(ethylene oxide)â€succinonitrile]/LiIâ€I₂ solid polymer electrolyteâ€based dyeâ€sensitized solar cell. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1601-1604.	1.8	7
52	Zinc influence on nanostructured tin oxide (SnO2) films as ammonia sensor at room temperature. Surfaces and Interfaces, 2021, 25, 101195.	3.0	7
53	Improved electrochemical properties of Li(Ni0.7Co0.3)O2 cathode for lithium ion batteries with controlled sintering conditions. Journal of Applied Electrochemistry, 2009, 39, 671-679.	2.9	6
54	Understanding the Electrical Transportâ€“Structure Relationship and Photovoltaic Properties of a [Succinonitrileâ€“Ionic Liquid]â€“LiIâ€“I₂ Redox Electrolyte. ACS Omega, 2020, 5, 12346-12354.	3.5	6

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55	Studies of polarization/self-depolarization and electret-type effect in AgI. Ionics, 1998, 4, 33-41.	2.4	5
56	Electrical properties of a new Ag+ ion conducting glassy system: x[0.75AgI:0.25AgCl] : (1â^'x)[Ag2O : P2O5]. Ionics, 2004, 10, 126-128.	2.4	5
57	Transport property of novel sono-catalysed LiCF3SO3doped SiO2ÂPEG ormolyte. Journal Physics D: Applied Physics, 2003, 36, 529-533.	2.8	4
58	Effects of Ultrasonic Irradiation on Physical Properties of Silica/PEG Hybrids. Journal of the Korean Ceramic Society, 2002, 39, 113-119.	2.3	4
59	Improvement of Temperature Coefficient of Frequency in Ba-deficient Ba5Nb4O15 Microwave Dielectrics. Journal of the Ceramic Society of Japan, 2007, 115, 978-981.	1.1	3
60	Dependence of Processing Parameters on Structural Properties and Microstructures of Pulsed Laser Deposited LiMn2O4Thin Films. Japanese Journal of Applied Physics, 2009, 48, 075501.	1.5	3
61	Electrical Transport, Structural, Optical and Thermal Properties of [(1â^'x)Succinonitrile: xPEO]-LiTFSI-Co(bpy)3(TFSI)2-Co(bpy)3(TFSI)3 Solid Redox Mediators. Polymers, 2022, 14, 1870.	4.5	3
62	Improved performance of siliconâ€nanoparticle filmâ€coated dyeâ€sensitized solar cells. Physica Status Solidi - Rapid Research Letters, 2012, 6, 424-426.	2.4	2
63	Physical and Dielectric Properties of Aluminoborosilicate-Based Dielectrics Containing Different Divalent Oxides. Journal of the Korean Ceramic Society, 2007, 44, 613-617.	2.3	2
64	Influence of pH and Dye Concentration on the Physical Properties and Microstructure of New Coumarin 4 Doped SiO2-PDMS ORMOSIL. Bulletin of the Korean Chemical Society, 2003, 24, 299-305.	1.9	2
65	Tetramethyl Succinonitrile as a Solid Plasticizer in a Poly(ethylene oxide) 8 â€Liâ€ 2 Solid Polymer Electrolyte. Macromolecular Rapid Communications, 2022, , 2100764.	3.9	2
66	Characterization of Thermal, Ionic Conductivity and Electrochemical Properties of Some p-Tosylate Anions-Based Protic Ionic Compounds. Crystals, 2022, 12, 507.	2.2	1
67	Electrical, Structural, Optical And Thermal Properties of (1-X)Blend: X LI[(CF3 SO2) 2N] Solid Polymer Electrolyte System. , 2014, , .		0