

Bvr Chowdari

List of Publications by Year in descending order

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108
papers

6,556
citations

53751

45
h-index

64755

79
g-index

108
all docs

108
docs citations

108
times ranked

6448
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of layered Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ as cathode for Li-ion batteries. <i>Electrochimica Acta</i> , 2002, 48, 145-151.	2.6	917
2	Li-storage and cyclability of urea combustion derived ZnFe ₂ O ₄ as anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2008, 53, 2380-2385.	2.6	232
3	Lithium recycling behaviour of nano-phase-CuCo ₂ O ₄ as anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2007, 173, 495-501.	4.0	207
4	Hybrid supercapacitor with nano-TiP ₂ O ₇ as intercalation electrode. <i>Journal of Power Sources</i> , 2011, 196, 8850-8854.	4.0	204
5	Metal oxyfluorides TiOF ₂ and NbO ₂ F as anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2006, 162, 1312-1321.	4.0	177
6	EIS and GITT studies on oxide cathodes, O ₂ -Li(2/3)+x(Co _{0.15} Mn _{0.85})O ₂ (x=0 and 1/3). <i>Electrochimica Acta</i> , 2003, 48, 2691-2703.	2.6	174
7	Long-term cycling studies on 4V-cathode, lithium vanadium fluorophosphate. <i>Journal of Power Sources</i> , 2010, 195, 5768-5774.	4.0	168
8	Effect of AlPO-coating on cathodic behaviour of Li(NiCo)O. <i>Journal of Power Sources</i> , 2005, 141, 129-142.	4.0	152
9	High-performance LiCoO ₂ by molten salt (LiNO ₃ :LiCl) synthesis for Li-ion batteries. <i>Journal of Power Sources</i> , 2005, 147, 241-248.	4.0	150
10	Preparation and electrochemical studies of electrospun TiO ₂ nanofibers and molten salt method nanoparticles. <i>Electrochimica Acta</i> , 2010, 55, 3109-3117.	2.6	134
11	Effect of aluminium doping on cathodic behaviour of LiNi _{0.7} Co _{0.3} O ₂ . <i>Journal of Power Sources</i> , 2001, 93, 156-162.	4.0	131
12	Sn-based Intermetallic Alloy Anode Materials for the Application of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015, 161, 261-268.	2.6	124
13	Sol-gel derived nano-crystalline CaSnO ₃ as high capacity anode material for Li-ion batteries. <i>Electrochemistry Communications</i> , 2002, 4, 947-952.	2.3	116
14	Exfoliated Graphene Oxide/MoO ₂ Composites as Anode Materials in Lithium-Ion Batteries: An Insight into Intercalation of Li and Conversion Mechanism of MoO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10884-10896.	4.0	116
15	X-ray photoelectron spectroscopy and electrochemical behaviour of 4 V cathode, Li(Ni _{1/2} Mn _{1/2})O ₂ . <i>Electrochimica Acta</i> , 2003, 48, 1505-1514.	2.6	114
16	Nanoflake CoN as a high capacity anode for Li-ion batteries. <i>Solid State Ionics</i> , 2009, 180, 1061-1068.	1.3	103
17	Graphenothermal reduction synthesis of exfoliated graphene oxide/iron (II) oxide composite for anode application in lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 293, 253-263.	4.0	99
18	Functional properties of electrospun NiO/RuO ₂ composite carbon nanofibers. <i>Journal of Alloys and Compounds</i> , 2012, 517, 69-74.	2.8	97

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19	(Li, Al)-co-doped spinel, Li(Li _{0.1} Al _{0.1} Mn _{1.8})O ₄ as high performance cathode for lithium ion batteries. <i>Electrochimica Acta</i> , 2013, 88, 745-755.	2.6	92
20	Anodic behaviour and X-ray photoelectron spectroscopy of ternary tin oxides. <i>Journal of Power Sources</i> , 2005, 139, 250-260.	4.0	91
21	Anodic electrochemical performances of MgCo ₂ O ₄ synthesized by oxalate decomposition method and electrospinning technique for Li-ion battery application. <i>Materials Research Bulletin</i> , 2016, 73, 369-376.	2.7	91
22	Studies on the lithium ion diffusion coefficients of electrospun Nb ₂ O ₅ nanostructures using galvanostatic intermittent titration and electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2014, 128, 198-202.	2.6	86
23	High performance metal nitrides, MN (M = Cr, Co) nanoparticles for non-aqueous hybrid supercapacitors. <i>Advanced Powder Technology</i> , 2015, 26, 783-788.	2.0	85
24	Synthesis by molten salt and cathodic properties of Li(Ni _{1/3} Co _{1/3} Mn _{1/3})O ₂ . <i>Journal of Power Sources</i> , 2006, 159, 263-267.	4.0	82
25	Carbothermal synthesis, spectral and magnetic characterization and Li-cyclability of the Mo-cluster compounds, LiYMo ₃ O ₈ and Mn ₂ Mo ₃ O ₈ . <i>Electrochimica Acta</i> , 2009, 54, 3360-3373.	2.6	82
26	Low temperature molten salt preparation of nano-SnO ₂ as anode for lithium-ion batteries. <i>Materials Letters</i> , 2015, 138, 231-234.	1.3	78
27	Molten synthesis of ZnO.Fe ₃ O ₄ and Fe ₂ O ₃ and its electrochemical performance. <i>Electrochimica Acta</i> , 2014, 118, 75-80.	2.6	73
28	Thermal, electrical and XPS studies of Ag ₂ O-TeO ₂ -P ₂ O ₅ glasses. <i>Journal of Non-Crystalline Solids</i> , 1996, 197, 31-40.	1.5	72
29	Mixed oxides Ca ₂ Fe ₂ O ₅ and Ca ₂ Co ₂ O ₅ as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2004, 49, 1035-1043.	2.6	71
30	Synthesis of compounds, Li(MMn _{11/6})O ₄ (M=Mn _{1/6} , Co _{1/6} , (Co _{1/12} Cr _{1/12}), (Co _{1/12} Al _{1/12}), (Cr _{1/12} Al _{1/12})) by polymer precursor method and its electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 4441-4450.	2.6	71
31	Electrical and electrochemical characterization of Li ₂ O:P ₂ O ₅ :Nb ₂ O ₅ -based solid electrolytes. <i>Journal of Non-Crystalline Solids</i> , 1989, 110, 101-110.	1.5	70
32	X-ray photoelectron spectroscopic studies of molybdenum phosphate glassy system. <i>Journal of Non-Crystalline Solids</i> , 1990, 119, 95-102.	1.5	67
33	Effect of Cr dopant on the cathodic behavior of LiCoO ₂ . <i>Electrochimica Acta</i> , 2002, 48, 219-226.	2.6	64
34	Lithium-storage and cycleability of nano-CdSnO ₃ as an anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2009, 192, 627-635.	4.0	64
35	Studies on Bare and Mg-doped LiCoO ₂ as a cathode material for Lithium ion Batteries. <i>Electrochimica Acta</i> , 2014, 128, 192-197.	2.6	64
36	Thermal, physical, electrical and XPS studies of the Li ₂ O:P ₂ O ₅ : MoO ₃ glass system. <i>Journal of Non-Crystalline Solids</i> , 1991, 128, 18-29.	1.5	62

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37	Raman spectroscopic study of ternary silver tellurite glasses. <i>Materials Research Bulletin</i> , 1999, 34, 327-342.	2.7	60
38	Iron-tin oxides with CaFe ₂ O ₄ structure as anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2003, 124, 204-212.	4.0	60
39	Electrochemical properties of bare and Ta-substituted Nb ₂ O ₅ nanostructures. <i>Electrochimica Acta</i> , 2011, 56, 1518-1528.	2.6	57
40	Effect of preparation temperature and cycling voltage range on molten salt method prepared SnO ₂ . <i>Electrochimica Acta</i> , 2013, 106, 143-148.	2.6	57
41	Cathodic behaviour of NiO-coated Li(Ni _{1/2} Mn _{1/2})O ₂ . <i>Electrochimica Acta</i> , 2005, 50, 3375-3382.	2.6	53
42	Li-storage of Fe ₃ O ₄ /C composite prepared by one-step carbothermal reduction method. <i>Journal of Alloys and Compounds</i> , 2013, 565, 90-96.	2.8	51
43	Effect of mixed glass-formers in Ag ₂ O.MoO ₃ .TeO ₂ system. <i>Journal of Physics and Chemistry of Solids</i> , 1997, 58, 515-525.	1.9	49
44	Sn-Ca amorphous alloy as anode for lithium ion battery. <i>Journal of Power Sources</i> , 2001, 97-98, 181-184.	4.0	49
45	Synthesis and electrochemical studies of the 4V cathode, Li(Ni _{2/3} Mn _{1/3})O ₂ . <i>Journal of Power Sources</i> , 2006, 160, 1369-1374.	4.0	49
46	Spectroscopic and electrical studies of silver sulfophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 1993, 160, 73-81.	1.5	47
47	Synthesis, impedance and electrochemical studies of lithium iron fluorophosphate, LiFePO ₄ F cathode. <i>Electrochimica Acta</i> , 2012, 85, 572-578.	2.6	46
48	Molten salt method of preparation and cathodic studies on layered-cathode materials Li(Co _{0.7} Ni _{0.3})O ₂ and Li(Ni _{0.7} Co _{0.3})O ₂ for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 225, 374-381.	4.0	44
49	Electrochemical studies of CNT/SnSb nanoparticles for lithium ion batteries. <i>Materials Research Bulletin</i> , 2015, 70, 478-485.	2.7	41
50	Ionic conductivity studies on Li _{1-x} M _{2-x} M ²⁺ P ₃ O ₁₂ (H = Hf, Zr; M ²⁺ = Ti, Nb). <i>Materials Research Bulletin</i> , 1989, 24, 221-229.	2.7	39
51	Preparation of Li(Ni _{0.5} Mn _{1.5})O ₄ by polymer precursor method and its electrochemical properties. <i>Electrochimica Acta</i> , 2012, 62, 269-275.	2.6	38
52	Li-ion kinetics and polarization effect on the electrochemical performance of Li(Ni _{1/2} Mn _{1/2})O ₂ . <i>Electrochimica Acta</i> , 2004, 49, 1565-1576.	2.6	38
53	Synthesis and Lithium Storage Properties of Zn, Co and Mg doped SnO ₂ Nano Materials. <i>Electrochimica Acta</i> , 2017, 247, 358-370.	2.6	37
54	Electrochemical properties of carbon-coated CaWO ₄ versus Li. <i>Electrochimica Acta</i> , 2005, 50, 5305-5312.	2.6	36

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55	Synthesis and characterization of silver borotellurite glasses. <i>Solid State Ionics</i> , 1996, 86-88, 521-526.	1.3	35
56	Layered manganese oxide with O2 structure, $\text{Li}_{(2/3)+x}(\text{Ni}_{1/3}\text{Mn}_{2/3})\text{O}_2$ as cathode for Li-ion batteries. <i>Electrochemistry Communications</i> , 2002, 4, 633-638.	2.3	35
57	Electrochemical studies on electrospun $\text{Li}(\text{Li}_{1/3}\text{Ti}_{5/3})\text{O}_4$ grains as an anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2012, 67, 33-40.	2.6	35
58	Low temperature molten salt synthesis of anatase TiO_2 and its electrochemical properties. <i>Solid State Ionics</i> , 2014, 262, 120-123.	1.3	35
59	Pb_3O_4 type antimony oxides MSb_2O_4 (M=Co, Ni) as anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2012, 71, 227-232.	2.6	34
60	Ionic conductivity studies of the vitreous $\text{Li}_2\text{O}:\text{P}_2\text{O}_5:\text{Ta}_2\text{O}_5$ system. <i>Journal of Non-Crystalline Solids</i> , 1989, 108, 323-332.	1.5	33
61	$\text{LiAl}_x\text{Co}_{1-x}\text{O}_2$ as 4 V cathodes for lithium ion batteries. <i>Journal of Power Sources</i> , 1999, 81-82, 690-695.	4.0	33
62	Carbon coated $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ from the single-source precursor, $\text{Li}_2(\text{VO})_2(\text{HPO}_4)_2 \cdot 6\text{H}_2\text{O}$ as cathode and anode materials for Lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 128, 184-191.	2.6	31
63	Characterization of $\text{Ag}_2\text{O}:\text{MoO}_3:\text{P}_2\text{O}_5$ glasses. <i>Solid State Ionics</i> , 1988, 28-30, 704-709.	1.3	30
64	Synthesis and characterization of $x\text{Cu}_2\text{O} \cdot y\text{TeO}_2 \cdot (1-x-y)\text{MoO}_3$ glass system. <i>Solid State Ionics</i> , 1998, 113-115, 711-721.	1.3	28
65	Facile one pot molten salt synthesis of nano $(\text{M}_{1/2}\text{Sb}_{1/2}\text{Sn})\text{O}_4$ (M=V, Fe, In). <i>Materials Letters</i> , 2015, 140, 115-118.	1.3	28
66	Synthesis, exploration of energy storage and electrochemical sensing properties of hematite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016, 671, 552-559.	2.8	28
67	Cathodic performance of anatase (TiO_2)-coated $\text{Li}(\text{Ni}_{0.8}\text{Co}_{0.2})\text{O}_2$. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 565-567.	1.2	27
68	Preparation, temperature dependent structural, molecular dynamics simulations studies and electrochemical properties of LiFePO_4 . <i>Materials Research Bulletin</i> , 2015, 66, 71-75.	2.7	27
69	Anodic properties of tin oxides with pyrochlore structure for lithium ion batteries. <i>Journal of Power Sources</i> , 2006, 159, 340-344.	4.0	26
70	The influence of Bi_2O_3 on $y\text{Li}_2\text{O} \cdot (1-y)\{x\text{Bi}_2\text{O}_3(1-x)\text{B}_2\text{O}_3\}$ glass system. <i>Solid State Ionics</i> , 1996, 86-88, 527-533.	1.3	25
71	Cathodic properties of (Al, Mg) co-doped $\text{LiNi}_{0.7}\text{Co}_{0.3}\text{O}_2$. <i>Solid State Ionics</i> , 2002, 152-153, 199-205.	1.3	24
72	Electrochemical investigation of SnSb nano particles for lithium-ion batteries. <i>Materials Letters</i> , 2015, 150, 24-27.	1.3	24

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73	Gel-combustion synthesized vanadium pentoxide nanowire clusters for rechargeable lithium batteries. <i>Journal of Alloys and Compounds</i> , 2017, 695, 850-858.	2.8	24
74	SnO and SnO ₂ -CoO nanocomposite as high capacity anode materials for lithium ion batteries. <i>Materials Research Bulletin</i> , 2016, 74, 291-298.	2.7	23
75	Investigations of AgX:Ag ₂ O:MoO ₃ :P ₂ O ₅ glassy system (X = I, Br, Cl). <i>Journal of Non-Crystalline Solids</i> , 1988, 105, 269-274.	1.5	22
76	Low temperature molten salt synthesis of Y ₂ Sn ₂ O ₇ anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2015, 182, 1060-1069.	2.6	22
77	Interstitial halogen centers in X-irradiated CsBr. <i>Journal of Physics and Chemistry of Solids</i> , 1972, 33, 1773-1783.	1.9	21
78	Studies on the role R ₂ O _n (R=Ga and Cr, n=3; R=Nb and Ta, n=5) in 0.5Li ₂ O-0.5{xR ₂ O _n -(1-x)B ₂ O ₃ } glass system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998, 53, 241-255.	1.7	19
79	Electrical and structural characterization of the xCuO:(1-x)V ₂ O ₅ . <i>Solid State Ionics</i> , 1992, 53-56, 1168-1171.	1.3	17
80	Ionic transport studies of solid electrolytes using microcomputer controlled instrumentation. <i>Solid State Ionics</i> , 1987, 24, 225-233.	1.3	16
81	Thermal, physical and electrical characterization of lithium boroarsenate glasses. <i>Journal of Non-Crystalline Solids</i> , 1990, 116, 16-26.	1.5	15
82	XPS studies on (PEO) _n LiCF ₃ SO ₃ and (PEO) _n Cu(CF ₃ SO ₃) ₂ polymer electrolytes. <i>Electrochimica Acta</i> , 1995, 40, 2109-2114.	2.6	15
83	Investigations on the influence of Sm ³⁺ ion on the nano TiO ₂ matrix as the anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 710, 205-215.	2.8	15
84	X-ray photoelectron spectroscopic and ionic transport studies on Ag ₂ O:P ₂ O ₅ glassy system. <i>Materials Research Bulletin</i> , 1991, 26, 1371-1378.	2.7	14
85	Optical properties of dichromate centers in some lattices. <i>Chemical Physics Letters</i> , 1978, 59, 311-315.	1.2	12
86	Structural and Physical Characterization of Li ₂ O:P ₂ O ₅ :MO ₃ (M = Cr ₂ , Mo, W) Ion Conducting Glasses. <i>Materials Research Society Symposia Proceedings</i> , 1992, 293, 325.	0.1	12
87	Yttrium-doped Li(Ni, Co)O ₂ : an improved cathode for Li-ion batteries. <i>Journal of Power Sources</i> , 2001, 97-98, 313-315.	4.0	12
88	Molten salt synthesis of CoFe ₂ O ₄ and its energy storage properties. <i>Materials Chemistry and Physics</i> , 2021, 257, 123747.	2.0	12
89	CrO ₄ ³⁻ centers in NH ₄ Al(SO ₄) ₂ .12H ₂ O single crystals. <i>Solid State Communications</i> , 1979, 31, 453-456.	0.9	11
90	Ionic transport studies of lithium phosphoarsenate glassy system. <i>Solid State Ionics</i> , 1988, 28-30, 747-751.	1.3	11

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91	Superconductivity of MgB ₂ after Mechanical Milling. <i>Physica Status Solidi A</i> , 2002, 191, 548-554.	1.7	11
92	Layered Li _{1+x} (Ni _{0.33} Co _{0.33} Mn _{0.33})O ₂ cathode material prepared by microwave assisted solvothermal method for lithium ion batteries. <i>Materials Research Bulletin</i> , 2017, 93, 381-390.	2.7	11
93	Electron paramagnetic resonance of Mn ²⁺ IN (NH ₄) ₂ Co ₂ (SO ₄) ₃ and (NH ₄) ₂ Ni ₂ (SO ₄) ₃ single crystals. <i>Journal of Physics and Chemistry of Solids</i> , 1969, 30, 2747-2757.	1.9	10
94	Thermal depolarization in dichromate doped KDP and ADP single crystals. <i>Solid State Communications</i> , 1979, 29, 687-690.	0.9	9
95	Structure, superconductivity and magnetic properties of mechanically alloyed Mg _{1-x} Fe _x B ₂ powders with x=0-0.4. <i>Acta Materialia</i> , 2004, 52, 1543-1553.	3.8	9
96	EPR studies of a molybdenyl complex in single crystals of NH ₄ Cl. <i>Chemical Physics Letters</i> , 1975, 30, 231-234.	1.2	8
97	Electrochemical properties of reheated molten salt synthesized (M _{1/2} Sb _{1/2} Sn) ₂ O ₄ (M = V, Fe, In) cycled in the voltage range of 0.005-1.0 and 0.005-3.0 V. <i>Solid State Ionics</i> , 2014, 268, 277-281.	1.3	8
98	Electrical properties of thin solid films of the solid electrolyte Ag ₅ W ₂ O ₈ . <i>Thin Solid Films</i> , 1983, 101, 131-139.	0.8	6
99	Optical absorption spectra of H center in CsBr. <i>Solid State Communications</i> , 1971, 9, 689-691.	0.9	5
100	Surface and electrical studies of CuO:V ₂ O ₅ thin films. <i>Thin Solid Films</i> , 1995, 260, 161-167.	0.8	4
101	Electron paramagnetic resonance study of Mn ²⁺ in (NH ₄) ₂ Mg ₂ (SO ₄) ₃ and (NH ₄) ₂ Zn ₂ (SO ₄) ₃ crystals. <i>Journal of Physics and Chemistry of Solids</i> , 1970, 31, 1408-1412.	1.9	2
102	EPR studies of MoO ₃ ⁺ in NH ₄ Br single crystals. <i>Chemical Physics Letters</i> , 1976, 42, 319-322.	1.2	2
103	Electronic absorption spectra of MnO ₄ ²⁻ ions in single crystals of alums. <i>Chemical Physics Letters</i> , 1980, 69, 117-120.	1.2	2
104	Studies on Ag ₆ I ₄ CrO ₄ thinfilm solid electrolyte. <i>Solid State Ionics</i> , 1983, 9-10, 1449-1454.	1.3	2
105	Recent Advances in Fast Ion Conducting Materials and Devices. , 1990, , .		2
106	Fast ion conduction in Li ₂ O _i -GeO ₂ -Nb ₂ O ₅ glasses. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1992, 14, 17-22.	1.7	2
107	Electrical conductivity and infrared absorption of VO ₂ ⁺ doped alkali halides. <i>Chemical Physics Letters</i> , 1976, 44, 121-124.	1.2	1
108	Electrochemical performance of anodized TiO ₂ Nanotubes for rechargeable Lithium Batteries. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1333, 60201.	0.1	0