

# Saket Asthana

## List of Publications by Year in descending order

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90  
papers

2,123  
citations

218677

26  
h-index

254184

43  
g-index

91  
all docs

91  
docs citations

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times ranked

2220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced electrical and photocatalytic activities in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> through structural modulation by using anatase and rutile phases of TiO <sub>2</sub> . Journal of Materiomics, 2022, 8, 18-29.	5.7	11
2	Role of B-site disorder in the properties of lead-free Na <sub>0.5</sub> Bi <sub>0.5</sub> (Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ceramic: A possible electrocaloric material with low leakage current. Journal of Physics and Chemistry of Solids, 2022, 163, 110579.	4.0	2
3	Scaling behavior of different shapes of hysteresis loops and recoverable energy storage density in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> , K <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> , and Na <sub>0.25</sub> K <sub>0.25</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ferroelectrics. Journal of Materiomics, 2022, 8, 918-927.	5.7	5
4	Structural and magnetic properties of Ba and Sn co-substituted bismuth ferrite. Materials Today: Proceedings, 2021, 39, 1515-1518.	1.8	2
5	Investigation on energy storage properties and thermally stable dielectric constant for high temperature electronic device applications in the holmium substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . Journal of Materials Science: Materials in Electronics, 2021, 32, 20225-20239.	2.2	4
6	Effect of W/Co co-substitution on structural, microstructural, magnetic and electrical properties of Bi <sub>4</sub> NdFeTi <sub>3</sub> O <sub>15</sub> aurivillius compound. Journal of Materials Science: Materials in Electronics, 2020, 31, 874-884.	2.2	9
7	Improved insulating and dielectric properties in Ho and Sc doped BiFeO <sub>3</sub> . AIP Conference Proceedings, 2020, , .	0.4	0
8	Nature of correlated polaron hopping mechanism in A-site cation disorder Nd <sub>0.7</sub> <sup>x</sup> LaxSr <sub>0.3</sub> MnO <sub>3</sub> (x=0.0, 0.1, 0.2 and 0.3) manganites. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	2
9	The effect of A-site cation on ferroelectric properties in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -based materials: Correlation between Burns temperature and remanent polarization. Journal of Applied Physics, 2020, 127, .	2.5	5
10	Origin of enhanced piezoelectric properties revealed through electric field driven studies in 0.94(Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ) <sup>0.06</sup> (Ba <sub>0.85</sub> Ca <sub>0.15</sub> Ti <sub>0.9</sub> Zr <sub>0.1</sub> O <sub>3</sub> ) ceramics. Journal of Applied Physics, 2020, 127, .	2.5	4
11	Predicting High Magneto-Electric Coupling in Gd Substituted BiFeO <sub>3</sub> . Physica Status Solidi (B): Basic Research, 2019, 256, 1900097.	1.5	5
12	Control over relaxor, piezo-photocatalytic and energy storage properties in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> via processing methodologies. Journal of Alloys and Compounds, 2019, 798, 540-552.	5.5	43
13	Investigation on the discharge energy storage density of the Rb substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> relaxor ferroelectric and its suitability for the orthopedic application. Journal of the American Ceramic Society, 2019, 102, 6802-6816.	3.8	21
14	Nd <sup>3+</sup> and Nb <sup>5+</sup> Co-Substitution Inducing a Large Electrocaloric Response in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> Lead-Free Ceramics. Physica Status Solidi (B): Basic Research, 2019, 256, 1900001.	1.5	10
15	Resolution of ambiguity between the depolarization and ferroelectric-relaxor transition temperature through dielectric studies in lead-free perovskite K <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . Materials Chemistry and Physics, 2019, 231, 344-350.	4.0	14
16	Particle size dependent properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> synthesized using hydrothermal technique. AIP Conference Proceedings, 2019, , .	0.4	0
17	Effect of La <sup>3+</sup> -donor substitution on structural, micro structural, dielectric and ferroelectric characteristics of BLNT-BZT solid solutions. Phase Transitions, 2019, 92, 1-12.	1.3	5
18	Enhanced Electrocaloric Effect and Energy Storage Density of Nd-Substituted 0.92NBT-0.08BT Lead Free Ceramic. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700915.	1.8	40

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19	Multifunctional Nd <sup>3+</sup> substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> as lead-free ceramics with enhanced luminescence, ferroelectric and energy harvesting properties. RSC Advances, 2018, 8, 15282-15289.	3.6	35
20	Optimum discharge energy density at room temperature in relaxor K <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> for green energy harvesting. Journal Physics D: Applied Physics, 2018, 51, 115501.	2.8	17
21	A lead free 0.96(Na <sub>0.5</sub> Bi <sub>0.49</sub> Nd <sub>0.01</sub> TiO <sub>3</sub> ) -0.04BaTiO <sub>3</sub> piezoceramic for possible optoelectronic device applications. AIP Conference Proceedings, 2018, , .	0.4	0
22	Nature of electric field driven ferroelectric phase transition in lead-free Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> : In-situ temperature dependent ferroelectric hysteresis and Raman scattering studies. Journal of Alloys and Compounds, 2018, 732, 945-951.	5.5	14
23	Correlation between structural, ferroelectric and luminescence properties through compositional dependence of Nd <sup>3+</sup> ion in lead free Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . Journal of Alloys and Compounds, 2018, 732, 233-239.	5.5	23
24	Magnetocaloric effect and critical field analysis in Eu substituted La <sub>0.7-x</sub> Eu <sub>x</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> (x = 0.0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7). Journal of Applied Physics, 2018, 123, 044101.	2.5	36
25	Improved ferroelectric and photoluminescence properties in Pr <sup>3+</sup> substituted Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> synthesized using hydrothermal route. AIP Conference Proceedings, 2018, , .	0.4	0
26	Randomly arranged cation-ordered nanoregions in lead-free relaxor ferroelectric K <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> : Prediction from first-principles study. Journal of Applied Physics, 2018, 123, .	2.5	8
27	Improved magnetization and reduced leakage current in Sm and Sc co-substituted BiFeO <sub>3</sub> . Journal of Applied Physics, 2018, 123, .	2.5	22
28	Enhanced energy storage density in lead free (Na <sub>0.5</sub> Bi <sub>0.48</sub> Eu <sub>0.02</sub> )Ti <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> (x=0.00, 0.01 & 0.02) ceramics. AIP Conference Proceedings, 2018, , .	0.4	2
29	Evidence of suppressed oxygen vacancies in Sm and Sc co-substituted BiFeO <sub>3</sub> . AIP Conference Proceedings, 2018, , .	0.4	0
30	Enhanced mechanical and ferroelectric properties through grain size refinement in site specific substituted lead free Na <sub>0.5-0.5x</sub> K <sub>x</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> (x = 0 to 0.10) ceramics. Materials Letters, 2017, 190, 273-275.	2.6	36
31	Electronic structure, vibrational and thermoelectric properties of AgTaO <sub>3</sub> : A first-principles study. Journal of Alloys and Compounds, 2017, 696, 1168-1173.	5.5	11
32	The effect on electrical and luminescent properties in nanocrystalline Na <sub>0.5</sub> Bi <sub>0.5-x</sub> Nd <sub>x</sub> TiO <sub>3</sub> . Materials Research Express, 2017, 4, 095019.	1.6	3
33	Polarization extension mechanism revealed through dynamic ferroelectric hysteresis and electric field driven structural distortions in lead free Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramic. Journal Physics D: Applied Physics, 2017, 50, 385601.	2.8	25
34	Enhancement in electrical and optical properties by substitution of lanthanides (Nd <sup>3+</sup> and Eu <sup>3+</sup> ) in lead free Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics. Ferroelectrics, 2017, 518, 23-30.	0.6	9
35	Observation of bond enthalpy dependence of insulating character in rare earth substituted BiFeO <sub>3</sub> . Materials Research Express, 2017, 4, 126305.	1.6	2
36	Effect of deposition temperature on structural, microstructural and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> thin films deposited by pulsed laser deposition. Journal of Materials Science: Materials in Electronics, 2017, 28, 446-453.	2.2	15

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37	The electrical properties and relaxation behavior of AgNb <sub>1/2</sub> Ta <sub>1/2</sub> O <sub>3</sub> ceramic. Physica B: Condensed Matter, 2017, 506, 42-47.	2.7	7
38	Investigation of Raman Modes and Born-Effective Charges in AgNb <sub>1/2</sub> Ta <sub>1/2</sub> O <sub>3</sub> : A Density-Functional and Raman Scattering Study. Journal of the American Ceramic Society, 2016, 99, 332-339.	3.8	10
39	Structural, ferroelectric and piezoelectric properties of chemically processed, low temperature sintered piezoelectric BZT/BCT ceramics. Materials Research Express, 2016, 3, 035702.	1.6	12
40	Investigation of near room temperature magnetocaloric, magnetoresistance and bolometric properties of Nd <sub>0.5</sub> La <sub>0.2</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> : Ag <sub>2</sub> O manganites. Journal of Materials Science: Materials in Electronics, 2016, 27, 6156-6165.	2.2	25
41	The structural and electronic properties of cubic AgMO <sub>3</sub> (M=Nb, Ta) by first principles calculations. AIP Conference Proceedings, 2016, , .	0.4	2
42	Global and local structural variations near the antiferroelectric regime in Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . AIP Conference Proceedings, 2015, , .	0.4	2
43	Microstructural studies of AgNbO <sub>3</sub> ceramic by using complex impedance spectroscopy. AIP Conference Proceedings, 2015, , .	0.4	6
44	Investigation of structural, vibrational and ferroic properties of AgNbO <sub>3</sub> at room temperature using neutron diffraction, Raman scattering and density-functional theory. Journal Physics D: Applied Physics, 2015, 48, 215303.	2.8	25
45	Effect of poling process on piezoelectric properties of sol-gel derived BZT/BCT ceramics. Journal of the European Ceramic Society, 2015, 35, 1785-1798.	5.7	154
46	Effect of A-site ionic size variation on TCR and electrical transport properties of (Nd <sub>0.7-x</sub> La <sub>x</sub> ) <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> with x=0.1 and 0.2. IOP Conference Series: Materials Science and Engineering, 2015, 73, 012047.	2.3	10
47	Observation of coexistence of ferroelectric and antiferroelectric phases in Sc substituted BiFeO <sub>3</sub> . Journal of Alloys and Compounds, 2015, 642, 192-199.	5.5	18
48	Monoclinic Cc-phase stabilization in magnetically diluted lead free Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> : Evolution of spin glass like behavior with enhanced ferroelectric and dielectric properties. Materials Research Express, 2015, 2, 096301.	1.6	14
49	Effect of local strain fields on the structural, Néel transition temperature and long range ferroelectric ordering in rare earth substituted Bi <sub>0.9</sub> R <sub>0.1</sub> FeO <sub>3</sub> multiferroic ceramics (where, R=Ag <sup>3+</sup> ). J Appl Phys 120, 074114 (2016)	2.0	7
50	Influence of A-site cation disorder on structural and magnetocaloric properties of Nd <sub>0.7-x</sub> La <sub>x</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> (x=0.0, 0.1, 0.2 & 0.3). Journal of Rare Earths, 2015, 33, 1072-1080.	4.8	19
51	Structural and microstructural correlation with ferroelectric and dielectric properties of nanostructured Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 9741-9746.	2.2	22
52	Ferroelectric, piezoelectric and mechanical properties in lead free (0.5)Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -(0.5)(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> electroceramics. Ceramics International, 2015, 41, 1980-1985.	4.8	54
53	Evidence of improved ferroelectric phase stabilization in Nd and Sc co-substituted BiFeO <sub>3</sub> . Journal of Applied Physics, 2014, 116, .	2.5	54
54	Evidence for the suppression of intermediate anti-ferroelectric ordering and observation of hardening mechanism in Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> ceramics through cobalt substitution. AIP Advances, 2014, 4, 017111.	1.3	24

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55	Study of structural effect on Eu-substituted LSMO manganite for high temperature coefficient of resistance. <i>Physica B: Condensed Matter</i> , 2014, 448, 277-280.	2.7	54
56	Effect of CoFe <sub>2</sub> O <sub>4</sub> mole percentage on multiferroic and magnetoelectric properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> particulate composites. <i>Ceramics International</i> , 2014, 40, 7799-7804.	4.8	46
57	Enhancement of magnetic and electrical properties in Sc substituted BiFeO <sub>3</sub> multiferroic. <i>Physica B: Condensed Matter</i> , 2014, 448, 267-272.	2.7	40
58	Enhanced magnetization and improved insulating character in Eu substituted BiFeO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	54
59	Large piezoelectric strain observed in sol-gel derived BZT-BCT ceramics. <i>Current Applied Physics</i> , 2014, 14, 396-402.	2.4	84
60	Electrical switching to probe complex phases in a frustrated manganite. <i>Solid State Communications</i> , 2014, 187, 64-67.	1.9	1
61	Evolution of multifunctional behavior in site specific cation substituted Na <sub>0.5</sub> Bi <sub>0.45</sub> Gd <sub>0.05</sub> Ti <sub>0.95</sub> Mn <sub>0.05</sub> O <sub>3</sub> ceramics. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1979-1984.	0.7	0
62	Theoretical and experimental investigation of Raman modes, ferroelectric and dielectric properties of relaxor Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	183
63	Investigation of structural, magnetic and optical properties of rare earth substituted bismuth ferrite. <i>Journal of Rare Earths</i> , 2013, 31, 370-375.	4.8	118
64	Investigations of electrical properties of Nd substituted BiFeO <sub>3</sub> multiferroic ceramics. <i>AIP Conference Proceedings</i> , 2013, . .	0.4	2
65	Influence of Nd Substitution by La in on Structural and Transport Properties for Sensing Applications. <i>ISRN Materials Science</i> , 2013, 2013, 1-10.	1.0	6
66	Photomagnetism of a <i>trans</i> -[Dithiocyanato Iron(II) Complex with a Tetradentate <i>N,N'</i> -bis(2-pyridylmethyl)-1,2-ethanediamine Ligand. <i>Chemistry - A European Journal</i> , 2012, 18, 35924-5934.		65
67	First principles study of lead free piezoelectric AgNbO <sub>3</sub> and (Ag <sub>1-x</sub> K <sub>x</sub> )NbO <sub>3</sub> solid solutions. <i>Solid State Communications</i> , 2012, 152, 1707-1710.	1.9	40
68	Observation of direct and indirect magnetoelectricity in lead free ferroelectric (Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ) <sub>2</sub> (CoFe <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> magnetostrictive particulate composite. <i>Applied Physics Letters</i> , 2012, 101, 082902.	3.3	56
69	Study of structural, magnetic and electrical properties on Ho-substituted BiFeO <sub>3</sub> . <i>Solid State Communications</i> , 2012, 152, 2071-2077.	1.9	52
70	A hybrid magnet with coexistence of ferromagnetism and photoinduced Fe(III) spin-crossover. <i>Chemical Science</i> , 2011, 2, 1121.	7.4	86
71	Effect of cobalt substitution on magnetic and transport properties of Nd <sub>0.5</sub> Sr <sub>0.5</sub> Mn <sub>1-x</sub> Co <sub>x</sub> O <sub>3</sub> (x = 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0). <i>Journal of Applied Physics</i> , 2011, 110, 074105.	1.7	14
72	Mono-aqua-bridged dinuclear complexes of Cu(II) containing NNO donor Schiff base ligand: Hydrogen-bond-mediated exchange coupling. <i>Journal of Molecular Structure</i> , 2010, 965, 39-44.	3.6	22

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73	Light-Induced Stored Information in Nanoparticles. European Journal of Inorganic Chemistry, 2010, 282-288.	2.0	41
74	A variable temperature EPR study of the manganites $(\text{La}_{1/3}\text{Sm}_{2/3})_{2/3}\text{Sr}_x\text{Ba}_{0.33-x}\text{MnO}_3$ ( $x=0.0, 0.1, 0.2$ ). Journal of Applied Physics, 2010, 322, 2902-2907.	2.3	35
75	Cyanocarbanion-Based Spin-Crossover Materials: Photocrystallographic and Photomagnetic Studies of a New Iron(II) Neutral Chain. Inorganic Chemistry, 2010, 49, 9358-9368.	4.0	38
76	Thermal and light-induced spin-transitions in iron(ii) complexes of 2,6-bis(4-halopyrazolyl)pyridines: the influence of polymorphism on a spin-crossover compound. Dalton Transactions, 2009, , 6656.	3.3	37
77	Structural, thermal and photomagnetic properties of spin crossover $[\text{Fe}(\text{bpp})_2]^{2+}$ salts bearing $[\text{Cr}(\text{L})(\text{ox})_2]^{3-}$ anions. Dalton Transactions, 2009, , 8087.	3.3	27
78	Lattice effect on the magnetic and magneto-transport properties of $(\text{La}_{1/3}\text{Sm}_{2/3})_{0.67}\text{Ba}_{0.33-x}\text{Sr}_x\text{MnO}_3$ ( $x=0.0, 0.1, 0.2$ and $0.33$ ) compounds. Journal of Alloys and Compounds, 2008, 450, 136-141.	5.5	13
79	Structural, magnetic and magneto-transport studies on the $(\text{La}_{2/3}\text{Sm}_{1/3})_{0.67}\text{Ba}_{0.33-x}\text{Sr}_x\text{MnO}_3$ ( $x=0, 0.1$ ). Journal of Applied Physics, 2008, 104, 104314.	2.8	3
80	Magnetic and photomagnetic studies in $\text{Nd}_{0.7}\text{Sr}_{0.3}\text{CoO}_3$ . Solid State Communications, 2007, 142, 132-136.	1.9	4
81	Weak charge-ordering behavior in phase separated $(\text{Ln}_{1/3}\text{Sm}_{2/3})_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ ( $\text{Ln}=\text{Pr}$ and $\text{La}$ ) manganites. Solid State Communications, 2007, 143, 522-526.	1.9	5
82	Effects of A-site ionic size variation on the magnetic and transport properties of $(\text{Pr}_x\text{Sm}_{1-x})_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ ( $0 \leq x \leq 1$ ). Physica Status Solidi (B): Basic Research, 2007, 244, 4542-4545.	1.5	4
83	Magnetic and magnetotransport properties in $(\text{La}_x\text{Sm}_{1-x})_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ ( $x = 1/3, 1/2$ and $2/3$ ) manganites. Physica Status Solidi (B): Basic Research, 2006, 243, 1922-1928.	1.5	3
84	Small polarons as charge carriers in the transport of $(\text{La}_{1/3}\text{Sm}_{2/3})_{0.67}\text{Ba}_{0.33-x}\text{Sr}_x\text{MnO}_3$ ( $x=0, 0.1, 0.2$ ). Journal of Applied Physics, 2007, 102, 104314.	2.7	5
85	Synthesis of capped nanosized $\text{Mn}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ ( $0 \leq x \leq 0.8$ ) by microwave refluxing for bio-medical applications. Journal of Magnetism and Magnetic Materials, 2005, 293, 55-61.	2.3	50
86	Effect of cobalt substitution on magneto-transport properties of $\text{Nd}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$ ( $0 \leq x \leq 1$ ). Journal of Applied Physics, 2005, 97, 10C101.	2.5	7
87	Electronic phase separation in $(\text{La}_{1-x}\text{Sm}_{2-x})_{2/3}\text{A}_{1-x}\text{MnO}_3$ ( $\text{A}=\text{Ca}, \text{Sr}$ and $\text{Ba}$ ) compounds. Journal of Applied Physics, 2005, 97, 10H711.	2.5	10
88	Effect of A-site ionic radii on the magneto-transport properties in $(\text{La}_x\text{Sm}_{1-x})_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ ( $x = 1/3, 1/2$ ). Journal of Applied Physics, 2005, 97, 10C101.	2.0	0
89	Magneto-transport studies on $(\text{Pr}_{1/3}\text{Sm}_{2/3})_{2/3}\text{A}_{1/3}\text{MnO}_3$ ( $\text{A} = \text{Ca}, \text{Sr}$ and $\text{Ba}$ ) compounds. Journal of Physics Condensed Matter, 2004, 16, 5297-5307.	1.8	18
90	Effect of Cr substitution on transport and magnetic ordering in $(\text{La}_{1-x}\text{Sm}_x)_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ ( $x = 0, 0.1, 0.2, 0.33$ ) compounds. Journal of Applied Physics, 2005, 97, 10C101.	2.3	11