

Rahmouni Hedi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Conduction mechanism, impedance spectroscopic investigation and dielectric behavior of $\text{La}_{0.5}\text{Ca}_{0.5-x}\text{Ag}_x\text{MnO}_3$ manganites with compositions below the concentration limit of silver solubility in perovskites ($0 \leq x \leq 0.2$). Dalton Transactions, 2015, 44, 10457-10466.	3.3	171
2	Electrical conductivity and complex impedance analysis of 20% Ti-doped $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ perovskite. Journal of Magnetism and Magnetic Materials, 2007, 316, 23-28.	2.3	104
3	Size mismatch, grain boundary and bandwidth effects on structural, magnetic and electrical properties of $\text{Pr}_{0.67}\text{Ba}_{0.33}\text{MnO}_3$ and $\text{Pr}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ perovskites. Journal of Alloys and Compounds, 2011, 509, 1394-1400.	5.5	86
4	Chromium effects on the transport properties in $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Cr}_x\text{O}_3$. Journal of Alloys and Compounds, 2012, 533, 93-96.	5.5	72
5	Effects of iron concentrations on the electrical properties of $\text{La}_{0.67}\text{Ba}_{0.33}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$. Journal of Alloys and Compounds, 2013, 575, 5-9.	5.5	60
6	Admittance spectroscopy and complex impedance analysis of Ti-modified $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$. Journal of Crystal Growth, 2008, 310, 556-561.	1.5	54
7	Titanium effects on the transport properties in $\text{La}_{0.7}\text{Sr}_{0.3}\text{Mn}_{1-x}\text{Ti}_x\text{O}_3$. Journal of Alloys and Compounds, 2010, 497, 1-5.	5.5	53
8	Electric dielectric properties and complex impedance analysis of $\text{La}_{0.5}\text{Ca}_{0.5-x}\text{Ag}_x\text{MnO}_3$ manganites. RSC Advances, 2015, 5, 2177-2184.	3.6	53
9	Magnetic and electrical behaviour of $\text{La}_{0.67}\text{Ba}_{0.33}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ perovskites. Materials Letters, 2009, 63, 2167-2170.	2.6	52
10	Investigation of annealing effects on the physical properties of $\text{Ni}_{0.6}\text{Zn}_{0.4}\text{Fe}_{1.5}\text{Al}_{0.5}\text{O}_4$ ferrite. RSC Advances, 2019, 9, 19949-19964.	3.6	50
11	Effect of chromium concentration on the structural, magnetic and electrical properties of praseodymium-calcium manganite. Journal of Alloys and Compounds, 2015, 650, 268-276.	5.5	41
12	Double Jonscher response and contribution of multiple mechanisms in electrical conductivity processes of Fe-PrCaMnO ceramic. Ceramics International, 2020, 46, 1601-1608.	4.8	38
13	Europium substitution for lanthanum in LaBaMnO The structural and electrical properties of $\text{La}_{0.7-x}\text{Eu}_x\text{Ba}_{0.3}\text{MnO}_3$ perovskite. Journal of Alloys and Compounds, 2017, 690, 890-895.	5.5	35
14	The effect of tin addition on the electrical conductivity of Sn-doped LaBaMnO_3 . Journal of Alloys and Compounds, 2014, 591, 259-262.	5.5	34
15	Structural and electrical properties of $\text{Zn}_{1-x}\text{Ni}_x\text{Fe}_2\text{O}_4$ ferrite. Physica B: Condensed Matter, 2015, 466-467, 31-37.	2.7	33
16	Effects of oxygen deficiency on the transport and dielectric properties of NdSrNbO . Journal of Physics and Chemistry of Solids, 2018, 117, 1-12.	4.0	33
17	Effect of exceeding the concentration limit of solubility of silver in perovskites on the dielectric and electric properties of half doped lanthanum calcium manganite. Physica B: Condensed Matter, 2015, 473, 1-6.	2.7	31
18	Study of physical properties of cobalt substituted $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ ceramics. Ceramics International, 2016, 42, 6145-6153.	4.8	30

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19	Investigation of nickel effects on some physical properties of magnesium based ferrite. Journal of Alloys and Compounds, 2017, 705, 340-348.	5.5	30
20	Investigation of magnetic and transport properties of PrCa(MnCo)O prepared by solid state process. Journal of Magnetism and Magnetic Materials, 2017, 423, 20-26.	2.3	29
21	Composition dependence of physical properties in Pr _{0.7} Ca _{0.3} Mn _{1-x} Ni _x O ₃ . Journal of Alloys and Compounds, 2017, 693, 631-641.	5.5	28
22	Structural, dielectric, electrical and modulus spectroscopic characteristics of CoFeCuO ₄ spinel ferrite nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115331.	3.5	28
23	Summerfield scaling model and conduction processes defining the transport properties of silver substituted half doped (La ²⁺ Ca) MnO ₃ ceramic. Ceramics International, 2020, 46, 24710-24717.	4.8	27
24	Conduction mechanism in La _{0.67} Ba _{0.33} Mn _{1-x} Fe _x O ₃ (x=0-0.2) perovskites. Physica B: Condensed Matter, 2010, 405, 1470-1474.	2.7	26
25	Effect of erbium concentration on the structural, optical and electrical properties of a Bi ₄ Ti ₃ O ₁₂ system. RSC Advances, 2017, 7, 22578-22586.	3.6	25
26	Transport properties of La _{0.9} Sr _{0.1} MnO ₃ manganite. European Physical Journal Plus, 2020, 135, 1.	2.6	25
27	Influence of Fe doping on physical properties of charge ordered praseodymium-calcium manganite material. European Physical Journal Plus, 2020, 135, 1.	2.6	24
28	Usefulness of theoretical approaches and experiential conductivity measurements for understanding manganite-transport mechanisms. Results in Physics, 2020, 19, 103570.	4.1	23
29	Influence of polarization and iron content on the transport properties of praseodymium-barium manganite. Journal of Physics and Chemistry of Solids, 2016, 88, 35-40.	4.0	21
30	Magnetic properties and impedance spectroscopic analysis in Pr _{0.7} Ca _{0.3} Mn _{0.95} Fe _{0.05} O ₃ perovskite ceramic. Journal of Materials Science: Materials in Electronics, 2020, 31, 21046-21058.	2.2	21
31	Transport properties of silver-calcium doped lanthanum manganite. Physica B: Condensed Matter, 2015, 457, 240-244.	2.7	20
32	Physical properties of 20% Cr-doped Pr _{0.7} Ca _{0.3} MnO ₃ perovskite. Ceramics International, 2015, 41, 11221-11227.	4.8	18
33	Sodium deficiency effect on the transport properties of La _{0.8} Na _{0.2-x} MnO ₃ manganites. Physica B: Condensed Matter, 2015, 478, 108-112.	2.7	18
34	Investigations of electrical properties of Pr _{0.65} Ca _{0.25} Cd _{0.1} MnO ₃ ceramic. European Physical Journal Plus, 2020, 135, 1.	2.6	18
35	Ytterbium doping effects on structural, optical and electrical properties of Bi ₄ Ti ₃ O ₁₂ system. Ceramics International, 2018, 44, 21893-21901.	4.8	17
36	Magnetic and dielectric properties of Ba-lacunar La _{0.5} Eu _{0.2} Ba _{0.3} MnO ₃ manganites synthesized using sol-gel method under different sintering temperatures. Journal of Magnetism and Magnetic Materials, 2020, 502, 166571.	2.3	15

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37	Dielectric properties of niobium-based oxide. <i>Journal of Alloys and Compounds</i> , 2017, 725, 342-348.	5.5	14
38	Study of magnetic and electrical properties of $\text{Pr}_{0.65}\text{Ca}_{0.25}\text{Ba}_{0.1}\text{MnO}_3$ manganite. <i>RSC Advances</i> , 2018, 8, 31755-31763.	3.6	14
39	Possibility of controlling the conduction mechanism by choosing a specific doping element in a praseodymium manganite system. <i>RSC Advances</i> , 2020, 10, 33868-33878.	3.6	14
40	Electrical and dielectric properties of $\text{Sm}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ compound. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122378.	2.9	14
41	Physical properties of Ag/Ca doped Lanthanum manganite. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20113-20121.	2.2	13
42	Electrical conductivity analysis and magnetic properties of $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{Mn}_{0.95}\text{Co}_{0.05}\text{O}_3$ oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1901-1908.	2.2	12
43	Barium deficiency and sintering temperature effects on structural and transport properties of $\text{La}_{0.5}\text{Eu}_{0.2}\text{Ba}_{0.3-x}\text{MnO}_3$ manganites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19513-19523.	2.2	12
44	Structural, dielectric and electrical properties of Zn doped $\text{Ba}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$. <i>Ceramics International</i> , 2015, 41, 10910-10914.	4.8	11
45	Effect of small quantity of chromium on the electrical, magnetic and magnetocaloric properties of $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{Mn}_{0.98}\text{Cr}_{0.02}\text{O}_3$ manganite. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	11
46	Structural, optical and electrical studies on Mn substituted $\text{La}_{0.6}\text{Ga}_{0.4}\text{FeO}_3$. <i>Journal of Alloys and Compounds</i> , 2019, 791, 822-832.	5.5	11
47	Chromium concentration effects on transport and dielectric behavior of lanthanum-gallium ferrite. <i>Physica B: Condensed Matter</i> , 2020, 591, 412244.	2.7	11
48	Effect of the nature of the dopant element on the physical properties of X-PrCaMnO system (X=Ca, Sr). <i>Tj ETQq 0,0 0 rgBT /Overlock</i>	2.3	10
49	Investigation of physical properties of manganite on example of $\text{Sm}_{0.35}\text{Pr}_{0.2}\text{Sr}_{0.45}\text{MnO}_3$. <i>Physica B: Condensed Matter</i> , 2021, 600, 412548.	2.7	9
50	Investigation of structural, electrical and dielectric properties of $\text{Pr}_{0.67}\text{Ba}_{0.22}\text{Sr}_{0.11}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ ($x=0, 0.05, 0.1, 0.15$ and 0.2) perovskite. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2585-2592.	2.2	8
51	Investigation of the dielectric response and the transport properties of samarium and strontium-based manganite. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	6
52	Study of structural properties and conduction mechanisms of $\text{La}_{0.67}\text{Ca}_{0.2}\text{Ba}_{0.13}\text{Fe}_{0.97}\text{Ti}_{0.03}\text{O}_3$ perovskite. <i>Inorganic Chemistry Communication</i> , 2022, 140, 109435.	3.9	6
53	Temperature, frequency and bias voltage effects on the electrical transport properties of (Sm-Pr-Sr) MnO_3 perovskite. <i>Materials Research Bulletin</i> , 2022, 155, 111976.	5.2	6
54	Transport properties and dielectric response of $\text{Pr}_{0.8}\text{Na}_{0.2-x}\text{K}_x\text{MnO}_3$ ($x=0, 0.05, 0.1, 0.15$ and 0.2) ceramics synthesized by sol-gel method. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	5

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55	Study of electrical properties of (Pr/Ca/Pb)MnO ₃ ceramic. Journal of Materials Science: Materials in Electronics, 2020, 31, 16830-16837.	2.2	4
56	Effect of replacing Fe with Ti on the electrical and dielectric properties of orthoferrite La _{0.7} Ga _{0.3} Fe _{1-x} Ti _x O ₃ (x=0, 0.1, 0.2, and 0.3). Phase Transitions, 2020, 93, 741-758.	1.3	4
57	Silver concentration effects on structural and electrical properties of La _{0.4} Pr _{0.25} Ca _{0.35} Ag _x MnO ₃ manganite elaborated by sol-gel method. Phase Transitions, 2021, 94, 616-626.	1.3	3
58	Sintering temperature effects on some physical properties of a Dy _{0.5} (Sr/Ca) _{0.5} MnO ₃ system. European Physical Journal Plus, 2019, 134, 1.	2.6	2
59	Frequency dependence of the hopping and disorder energies and conduction mechanisms in Cr-(Pr/Ca)MnO ₃ . Physica B: Condensed Matter, 2020, 599, 412491.	2.7	2
60	Partial substitution effects on the physical properties of Ba _{0.67} Nd _{0.22} Ti _(1-x) Sn _x O ₃ . European Physical Journal Plus, 2015, 130, 1.	2.6	1
61	Fe substitution for Mn in PrSrCaMnO - The electrical and dielectrical properties of Pr _{0.6} Sr _{0.3} Ca _{0.1} Mn _{1-x} Fe _x O ₃ perovskite. European Physical Journal Plus, 2016, 131, 1.	2.6	1
62	Reply to "Electrical properties analysis of materials with ferroic order". RSC Advances, 2016, 6, 21011-21011.	3.6	1
63	Polarization and Ni content effects on structural properties, electrical conductivity, complex impedance and dielectric constant of Co-Mg-ferrites. European Physical Journal Plus, 2018, 133, 1.	2.6	1
64	Morphological, electrical and dielectric properties of La _{0.6} Ga _{0.4} Fe _{1-x} Mn _x O ₃ ceramics. Phase Transitions, 2020, 93, 992-1005.	1.3	1
65	Close look on the impact of treating dysprosium manganite with Ca/Sr in terms of transport properties. Journal of Alloys and Compounds, 2020, 834, 155121.	5.5	1
66	Effect of co doping on the electric and dielectric properties of Bi _{3.8-x} Er _{0.2} Yb _x Ti ₃ O ₁₂ lead-free ceramics. Journal of Alloys and Compounds, 2021, 898, 162899.	5.5	1