

# Kleber D Machado

## List of Publications by Year in descending order

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62  
papers

842  
citations

430874

18  
h-index

552781

26  
g-index

62  
all docs

62  
docs citations

62  
times ranked

825  
citing authors

#	ARTICLE	IF	CITATIONS
1	GaxSe10-x based solar cells: Some alternatives for the improvement in their performance parameters. Solar Energy Materials and Solar Cells, 2019, 193, 141-148.	6.2	7
2	Coexistence of interface states and confined electronic levels contribution for the light emission of Si nanocrystals embedded in SiO2. Journal of Luminescence, 2019, 209, 291-294.	3.1	0
3	Influence of pressure on the morphology and structure of surfaces sintered in pulsed DC annular hollow cathode discharge. Surface and Coatings Technology, 2018, 344, 402-409.	4.8	5
4	Influence of an interfacial cesium oxide thin layer in the performance and internal dynamic processes of GaSe9 solar cells. Solar Energy Materials and Solar Cells, 2017, 171, 1-7.	6.2	3
5	Enhancement of P3HT organic photodiodes by the addition of a GaSe<sub>9</sub> alloy thin layer. Semiconductor Science and Technology, 2017, 32, 085008.	2.0	2
6	Morphological, optical and electrical properties of GaSe9 films and its application in photovoltaic devices. Journal of Materials Science: Materials in Electronics, 2017, 28, 2241-2249.	2.2	2
7	Electronic and optical properties of amorphous GaSe thin films. Journal of Materials Science: Materials in Electronics, 2016, 27, 7379-7383.	2.2	8
8	EXAFS investigations on amorphous GaSe9 thin films. Journal of Non-Crystalline Solids, 2016, 447, 233-237.	3.1	1
9	Structural and thermal investigations of an amorphous GaSe9 alloy using EXAFS, cumulant expansion, and reverse Monte Carlo simulations. Journal of Chemical Physics, 2015, 142, 054504.	3.0	3
10	Determination of thermal diffusivity and optical gap of an amorphous P20Se80 alloy through photoacoustic measurements. Journal of Non-Crystalline Solids, 2015, 426, 43-46.	3.1	1
11	SeP hole injection layer for devices based on organic materials. Journal Physics D: Applied Physics, 2014, 47, 015304.	2.8	5
12	Determination of thermal and photothermal properties of an amorphous GaSe9 alloy. Journal of Applied Physics, 2014, 116, 083514.	2.5	8
13	Structural, optical and thermal characterization of nanostructured CdSe obtained by mechanical alloying. Journal of Molecular Structure, 2014, 1074, 511-515.	3.6	5
14	Structural and optical properties of ZnO films produced by a modified ultrasonic spray pyrolysis technique. Thin Solid Films, 2014, 551, 13-18.	1.8	8
15	Structural and vibrational investigations on Ge34Sb66 solid solutions produced by mechanical alloying. Journal of Alloys and Compounds, 2013, 575, 80-85.	5.5	19
16	Modeling the amorphous structure of mechanically alloyed Ti50Ni25Cu25 using anomalous wide-angle x-ray scattering and reverse Monte Carlo simulation. Physica B: Condensed Matter, 2013, 424, 60-68.	2.7	12
17	Vibrational and structural properties of an amorphous InSe9 alloy produced by mechanical alloying. European Physical Journal B, 2013, 86, 1.	1.5	4
18	Structural investigations on an amorphous Se<sub>90</sub>Te<sub>10</sub> alloy produced by mechanical alloying using EXAFS, cumulant expansion and RMC simulations. Journal of Physics Condensed Matter, 2012, 24, 125401.	1.8	4

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19	Structural, vibrational and optical studies on an amorphous $\text{Se}_{90}\text{P}_{10}$ alloy produced by mechanical alloying. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 115802.	1.8	7
20	Thermal and optical studies of an amorphous $\text{InSe}_9$ alloy produced by mechanical alloying. <i>Solid State Communications</i> , 2012, 152, 1604-1608.	1.9	3
21	Strong evidences of tempered martensite-to-nitrogen-expanded austenite transformation in CA-6NM steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 552, 569-572.	5.6	27
22	EXAFS and cumulant expansion studies of an amorphous $\text{Se}_{90}\text{P}_{10}$ alloy produced by mechanical alloying. <i>Solid State Communications</i> , 2011, 151, 1280-1284.	1.9	10
23	Comparison between Einstein and Debye models for an amorphous $\text{Ni}_{46}\text{Ti}_{54}$ alloy produced by mechanical alloying investigated using extended x-ray absorption fine structure and cumulant expansion. <i>Journal of Chemical Physics</i> , 2011, 134, 064503.	3.0	11
24	Investigation on vibrational and structural properties of amorphous alloys produced by mechanical alloying by Raman spectroscopy, X-ray diffraction, EXAFS and RMC simulations. <i>Solid State Communications</i> , 2010, 150, 1359-1363.	1.9	8
25	EXAFS and cumulant expansion studies of an amorphous $\text{Cu}_{64}\text{Ti}_{36}$ alloy produced by mechanical alloying using XRD, EXAFS and RMC. <i>Solid State Communications</i> , 2010, 150, 1674-1678.	1.9	10
26	Reverse Monte Carlo simulations of an amorphous $\text{Se}_{0.90}\text{S}_{0.10}$ alloy produced by mechanical alloying combining XRD and EXAFS data. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2865-2868.	3.1	8
27	Vibrational, optical and structural studies of an amorphous $\text{Se}_{0.90}\text{S}_{0.10}$ alloy produced by mechanical alloying. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 195406.	1.8	10
28	Modeling the atomic structure of an amorphous $\text{Co}_{57}\text{Ti}_{43}$ alloy produced by mechanical alloying using RMC simulations. <i>Solid State Communications</i> , 2008, 148, 46-49.	1.9	3
29	Influence of the temperature on the structure of an amorphous $\text{Ni}_{46}\text{Ti}_{54}$ alloy produced by mechanical alloying. <i>European Physical Journal B</i> , 2008, 64, 201-209.	1.5	7
30	EXAFS and XRD studies of an amorphous $\text{Co}_{57}\text{Ti}_{43}$ alloy produced by mechanical alloying. <i>Solid State Communications</i> , 2007, 143, 153-157.	1.9	12
31	Modeling the atomic structure of an amorphous $\text{Ni}_{46}\text{Ti}_{54}$ alloy produced by mechanical alloying using RMC simulations. <i>Chemical Physics Letters</i> , 2006, 430, 108-112.	2.6	4
32	EXAFS and Raman studies of mechanical alloyed $\text{Ni}_{25}\text{Se}_{75}$ mixture under high-pressure conditions. <i>Journal of Solid State Chemistry</i> , 2005, 178, 93-99.	2.9	11
33	Reverse Monte Carlo simulations and Raman scattering of an amorphous $\text{GeSe}_4$ alloy produced by mechanical alloying. <i>Solid State Communications</i> , 2005, 133, 411-416.	1.9	25
34	Structural study of $\text{Co}_x\text{Ge}_{100-x}$ alloys produced by mechanical alloying. <i>Solid State Communications</i> , 2005, 136, 466-469.	1.9	3
35	X-ray and neutron diffraction studies and reverse Monte Carlo simulations of an amorphous $\text{Ni}_{60}\text{Ti}_{40}$ alloy produced by mechanical alloying. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 1703-1710.	1.8	19
36	Polymers with attractive interactions on the Husimi lattice. <i>Journal of Physics A</i> , 2004, 37, 8811-8821.	1.6	16

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37	Reverse Monte Carlo simulations, Raman scattering, and thermal studies of an amorphous Ge <sub>30</sub> Se <sub>70</sub> alloy produced by mechanical alloying. <i>Journal of Chemical Physics</i> , 2004, 120, 329-336.	3.0	12
38	Extended x-ray absorption fine structure, x-ray diffraction and reverse Monte Carlo studies of an amorphous Ga <sub>50</sub> Se <sub>50</sub> alloy produced by mechanical alloying. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 581-590.	1.8	18
39	Mössbauer and magnetization studies of Fe <sub>25</sub> Se <sub>75</sub> iron selenides produced by mechanical alloying. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 269, 6-14.	2.3	18
40	Comparison among the local atomic order of amorphous TM-Ti alloys (TM = Co, Ni, Cu) produced by mechanical alloying studied by EXAFS. <i>European Physical Journal B</i> , 2004, 37, 421-424.	1.5	6
41	Modeling the atomic structure of an amorphous Co <sub>25</sub> Nb <sub>75</sub> alloy produced by mechanical alloying using an additive hard sphere model and RMC simulations. <i>Chemical Physics Letters</i> , 2004, 384, 386-390.	2.6	7
42	Structural, thermal and optical studies of Ni <sub>3</sub> Se <sub>2</sub> compound produced by mechanical alloying. <i>Solid State Ionics</i> , 2004, 168, 205-210.	2.7	20
43	Structural study of Cu <sub>2</sub> x Se alloys produced by mechanical alloying. <i>Acta Crystallographica Section B: Structural Science</i> , 2004, 60, 282-286.	1.8	51
44	Optical phonons in mechanical alloyed Zn <sub>50</sub> Se <sub>50</sub> mixture. <i>Vibrational Spectroscopy</i> , 2004, 36, 117-121.	2.2	1
45	Hexagonal CoSe formation in mechanical alloyed Co <sub>75</sub> Se <sub>25</sub> mixture. <i>Solid State Communications</i> , 2004, 131, 265-270.	1.9	38
46	XRD, DSC, MS and RS studies of Fe <sub>75</sub> Se <sub>25</sub> iron selenide prepared by mechano-synthesis. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 270, 89-98.	2.3	31
47	Pressure-induced effects on the structural properties of iron selenides produced by mechano-synthesis. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 8485-8490.	1.8	10
48	Study of amorphous Co <sub>56</sub> Nb <sub>22</sub> Sn <sub>22</sub> alloy prepared by mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2004, 347, 262-267.	3.1	0
49	Nucleation and growth of nanocrystalline pyrite nickel diselenide by mechanical alloying. <i>Solid State Communications</i> , 2003, 128, 229-234.	1.9	27
50	GaSe formation by mechanical alloying Ga <sub>50</sub> Se <sub>50</sub> mixture. <i>Solid State Communications</i> , 2003, 126, 611-615.	1.9	25
51	Aging of a nanostructured Zn <sub>50</sub> Se <sub>50</sub> alloy produced by mechanical alloying. <i>Solid State Communications</i> , 2003, 127, 477-481.	1.9	24
52	EXAFS, X-ray diffraction and Mössbauer studies of an amorphous Fe <sub>60</sub> Ti <sub>40</sub> alloy produced by mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2003, 318, 121-130.	3.1	6
53	Structural study of an amorphous NiZr <sub>2</sub> alloy by anomalous wide-angle x-ray scattering and reverse Monte Carlo simulations. <i>Physical Review B</i> , 2003, 67, .	3.2	30
54	Stilck, Serra, and Machado Reply. <i>Physical Review Letters</i> , 2002, 89, .	7.8	10

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55	EXAFS, x-ray diffraction, and reverse Monte Carlo simulations of an amorphousNi60Ti40alloy produced by mechanical alloying. Physical Review B, 2002, 66, .	3.2	30
56	Structural studies of cobalt selenides prepared by mechanical alloying. Physica B: Condensed Matter, 2002, 324, 409-418.	2.7	70
57	Structural studies of iron selenides prepared by mechanical alloying. Solid State Communications, 2002, 123, 179-184.	1.9	54
58	Thermodynamic behavior of a polymer with interacting bonds on a square lattice. Physical Review E, 2001, 64, 051810.	2.1	16
59	Tension of polymers in a strip. European Physical Journal B, 1998, 5, 899-904.	1.5	9
60	Study of polymers with crossing bonds on the square lattice. Journal of Physics A, 1997, 30, 1445-1455.	1.6	2
61	Nature of the Collapse Transition for Polymers. Physical Review Letters, 1996, 76, 2734-2737.	7.8	26
62	Two- and three-dimensional site-bond-correlated percolation. Physical Review B, 1993, 47, 493-496.	3.2	10