

# Carlos Rincon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/772825/publications.pdf>

Version: 2024-02-01

42  
papers

1,545  
citations

304743

22  
h-index

302126

39  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice vibrations of CuInSe <sub>2</sub> and CuGaSe <sub>2</sub> by Raman microspectrometry. Journal of Applied Physics, 1992, 72, 4321-4324.	2.5	265
2	Crystal growth and structure, electrical, and optical characterization of the semiconductor Cu <sub>2</sub> SnSe <sub>3</sub> . Journal of Applied Physics, 2001, 90, 1847-1853.	2.5	139
3	Raman spectra of the ordered vacancy compounds CuIn <sub>3</sub> Se <sub>5</sub> and CuGa <sub>3</sub> Se <sub>5</sub> . Applied Physics Letters, 1998, 73, 441-443.	3.3	105
4	Effect of structural disorder on the Urbach energy in Cu ternaries. Physical Review B, 2001, 64, .	3.2	89
5	Raman spectrum of monoclinic semiconductor $\text{Cu}_2\text{SnSe}_3$ . Solid State Communications, 2011, 151, 84-86.	1.9	78
6	On the band gap anomaly in the III <sub>2</sub> VI <sub>2</sub> , III <sub>3</sub> VI <sub>5</sub> , and III <sub>5</sub> VI <sub>8</sub> families of Cu ternaries. Applied Physics Letters, 2000, 77, 94-96.	3.3	66
7	Temperature dependence of the optical energy gap and Urbach's energy of CuIn <sub>5</sub> Se <sub>8</sub> . Journal of Applied Physics, 2001, 90, 4423-4428.	2.5	66
8	On the Dielectric Constants of A <sup>I</sup> B <sup>III</sup> C Chalcopyrite Semiconductor Compounds. Physica Status Solidi (B): Basic Research, 1995, 191, 115-119.	1.5	62
9	Raman spectra of CuInTe <sub>2</sub> , CuIn <sub>3</sub> Te <sub>5</sub> , and CuIn <sub>5</sub> Te <sub>8</sub> ternary compounds. Journal of Applied Physics, 2000, 88, 3439-3444.	2.5	52
10	Crystal growth and structural, electrical, and optical characterization of CuIn <sub>3</sub> Te <sub>5</sub> and CuGa <sub>3</sub> Te <sub>5</sub> ordered vacancy compounds. Journal of Applied Physics, 2000, 87, 7814-7819.	2.5	50
11	Urbach's tail in the absorption spectra of the ordered vacancy compound CuIn <sub>3</sub> Se <sub>5</sub> . Journal of Applied Physics, 1998, 84, 5823-5825.	2.5	45
12	Scattering of the charge carriers by ordered arrays of defect pairs in ternary chalcopyrite semiconductors. Applied Physics Letters, 2002, 80, 998-1000.	3.3	41
13	Temperature dependence of the fundamental absorption edge in CuInTe <sub>2</sub> . Journal of Applied Physics, 1997, 81, 7580-7583.	2.5	40
14	Effect of ordered arrays of native defects on the crystal structure of In- and Ga-rich Cu-ternaries. Applied Physics Letters, 2003, 83, 1328-1330.	3.3	35
15	Urbach's tail in the absorption spectra of the ordered vacancy compound CuGa <sub>3</sub> Se <sub>5</sub> . Journal of Physics and Chemistry of Solids, 2000, 61, 669-673.	4.0	29
16	Crystal Growth, Structural and Optical Characterization of the Ordered Vacancy Compounds of the III <sub>3</sub> -VI <sub>5</sub> and III <sub>5</sub> -VI <sub>8</sub> Families. Japanese Journal of Applied Physics, 2000, 39, 44.	1.5	29
17	On the temperature dependence of the electrical and optical properties of Cu <sub>2</sub> GeSe <sub>3</sub> . Journal of Applied Physics, 2000, 88, 822-828.	2.5	28
18	Raman scattering and X-ray diffraction study in Cu <sub>2</sub> GeSe <sub>3</sub> . Solid State Communications, 2008, 146, 65-68.	1.9	28

#	ARTICLE	IF	CITATIONS
19	Raman spectra of the chalcopyrite compound CuInTe <sub>2</sub> . Journal of Applied Physics, 1999, 85, 3925-3927.	2.5	26
20	Raman spectra of the chalcopyrite compound CuGaTe <sub>2</sub> . Journal of Physics and Chemistry of Solids, 2001, 62, 847-855.	4.0	23
21	Electrical Properties of the Ordered Defect Compound CuIn <sub>3</sub> Se <sub>5</sub> . Physica Status Solidi A, 2002, 194, 244-252.	1.7	23
22	Debye Temperature of Al <sub>1.5</sub> Bi <sub>1.5</sub> Cu <sub>1.5</sub> VI <sub>2</sub> Chalcopyrites and Cu <sub>1.5</sub> Bi <sub>1.5</sub> Cu <sub>1.5</sub> VI <sub>5</sub> and Cu <sub>1.5</sub> Bi <sub>1.5</sub> Cu <sub>1.5</sub> VI <sub>8</sub> Ordered Defect Compounds. Physica Status Solidi (B): Basic Research, 2002, 234, 541-552.	1.5	22
23	Crystal growth, structural, and optical characterization of the ordered defect compound CuGa <sub>5</sub> Se <sub>8</sub> . Journal of Applied Physics, 2004, 95, 8280-8285.	2.5	22
24	Effect of ordered defects on the crystal structure of In-rich ternary compounds of the Cu <sub>1-x</sub> In <sub>x</sub> Se system. Journal Physics D: Applied Physics, 2004, 37, 479-484.	2.8	21
25	Thermal conductivity of ternary chalcopyrite compounds. Materials Letters, 1993, 17, 59-62.	2.6	20
26	Electrical conduction in ordered defect compounds. Journal of Physics and Chemistry of Solids, 2003, 64, 1627-1632.	4.0	17
27	Effect of donor-acceptor defect pairs on the electrical and optical properties of CuIn <sub>3</sub> Te <sub>5</sub> . Journal of Physics Condensed Matter, 2002, 14, 997-1009.	1.8	14
28	Defect physics of the ordered defect compound CuIn <sub>3</sub> Se <sub>5</sub> . Solar Energy Materials and Solar Cells, 2002, 71, 19-26.	6.2	12
29	Optical properties of the ordered defect compound CuIn <sub>5</sub> Te <sub>8</sub> . Journal of Physics and Chemistry of Solids, 2002, 63, 581-589.	4.0	12
30	Structural characterization and optical absorption spectrum of Cu <sub>3</sub> In <sub>5</sub> Te <sub>9</sub> ordered defect semiconducting compound. Materials Letters, 2017, 186, 155-157.	2.6	12
31	Crystal structure refinement of the ternary compound Cu <sub>2</sub> SnTe <sub>3</sub> by X-ray powder diffraction. Crystal Research and Technology, 2008, 43, 433-437.	1.3	11
32	On the effect of structural disorders on the Urbach's tails of ternary chalcopyrite semiconductors and related ordered defect compounds. Journal of Applied Physics, 2020, 127, .	2.5	11
33	Intervalence-band and band-to-band transitions in CuGaTe <sub>2</sub> single crystal. Journal of Applied Physics, 2003, 94, 2999-3003.	2.5	8
34	Raman spectra of the chalcopyrite compound CuGaTe <sub>2</sub> . Materials Letters, 1999, 38, 305-307.	2.6	7
35	Raman spectra of the orthorhombic semiconductor compound Cu <sub>2</sub> SnTe <sub>3</sub> . Solid State Communications, 2011, 151, 451-455.	1.9	7
36	The effective cation radius dependence of the unit cell parameters of In(Ga)-rich ternary compounds of [Cu <sub>2</sub> (Se, Te)] <sub>x</sub> [(In <sub>2</sub> , Ga <sub>2</sub> )(Se <sub>3</sub> , Te <sub>3</sub> )] <sub>1-x</sub> system. Materials Letters, 2015, 157, 70-72.	2.6	6

#	ARTICLE	IF	CITATIONS
37	Crystal structure, electrical, and optical properties of $\text{Cu}_3\text{In}_7\text{Te}_{12}$ ordered defect semiconducting compound. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700087.	1.5	6
38	X-ray powder diffraction, phase transitions and optical characterization of the $\text{Cu}(\text{In}_{1-x}\text{Ga}_x)_3\text{Te}_5$ semiconducting system. <i>Journal of Alloys and Compounds</i> , 2005, 393, 100-104.	5.5	5
39	On the crystal structure of the ordered vacancy compound $\text{Cu}_3\text{In}_5\text{Te}_9$ . <i>Revista Mexicana De Física</i> , 2019, 65, 360-364.	0.4	5
40	Structural characterization of the high-temperature modification of the $\text{Cu}_2\text{ZnGeTe}_4$ quaternary semiconductor compound. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1195-1201.	1.5	4
41	Raman spectra of $\text{CuGa}_3\text{Te}_5$ ordered defect compound. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600844.	1.5	2
42	Structural Characterization, Optical Absorption and Electrical Conduction in Ordered Defect Compound $\text{Cu}_3\text{In}_5\text{Se}_9$ of the Ternary Cu-In-Se Semiconductor System. <i>Journal of Electronic Materials</i> , 2020, 49, 419-428.	2.2	2