Doris Cadavid

List of Publications by Year
in descending order

51 papers	3,058 citations	218381 26 h-index	189595 50 g-index
53 all docs	53 docs citations	53 times ranked	4319 citing authors

#	Article	IF	Citations
1	Synthesis, Bottom up Assembly and Thermoelectric Properties of Sb-Doped PbS Nanocrystal Building Blocks. Materials, 2021, 14, 853.	1.3	5
2	Influence of the Ligand Stripping on the Transport Properties of Nanoparticle-Based PbSe Nanomaterials. ACS Applied Energy Materials, 2020, 3, 2120-2129.	2.5	11
3	Bismuth telluride–copper telluride nanocomposites from heterostructured building blocks. Journal of Materials Chemistry C, 2020, 8, 14092-14099.	2.7	15
4	Low-cost tangerine peel waste mediated production of Titanium Dioxide Nanocrystals: Synthesis and characterization. Environmental Nanotechnology, Monitoring and Management, 2020, 13, 100285.	1.7	14
5	Tin Selenide Molecular Precursor for the Solution Processing of Thermoelectric Materials and Devices. ACS Applied Materials & Interfaces, 2020, 12, 27104-27111.	4.0	15
6	Ge–Doped ZnSb/Î²–Zn 4 Sb 3 Nanocomposites with High Thermoelectric Performance. Advanced Materials Interfaces, 2019, 6, 1900467.	1.9	19
7	Ligand-Mediated Band Engineering in Bottom-Up Assembled SnTe Nanocomposites for Thermoelectric Energy Conversion. Journal of the American Chemical Society, 2019, 141, 8025-8029.	6.6	47
8	Crystallographically textured SnSe nanomaterials produced from the liquid phase sintering of nanocrystals. Dalton Transactions, 2019, 48, 3641-3647.	1.6	16
9	Critical role of nanoinclusions in silver selenide nanocomposites as a promising room temperature thermoelectric material. Journal of Materials Chemistry C, 2019, 7, 2646-2652.	2.7	47
10	Mechanistic study of energy dependent scattering and hole-phonon interaction at hybrid polymer composite interfaces for optimized thermoelectric performance. Composites Part B: Engineering, 2019, 164, 54-60.	5.9	24
11	Crystallographically Textured Nanomaterials Produced from the Liquid Phase Sintering of Bi_xSb_{2–x}Te₃ Nanocrystal Building Blocks. Nano Letters, 2018, 18, 2557-2563.	4.5	89
12	Tin Diselenide Molecular Precursor for Solution–Processable Thermoelectric Materials. Angewandte Chemie, 2018, 130, 17309-17314.	1.6	9
13	Large-area and adaptable electrospun silicon-based thermoelectric nanomaterials with high energy conversion efficiencies. Nature Communications, 2018, 9, 4759.	5.8	62
14	Tin Diselenide Molecular Precursor for Solution–Processable Thermoelectric Materials. Angewandte Chemie - International Edition, 2018, 57, 17063-17068.	7.2	23
15	Topological doping effects in 2D chalcogenide thermoelectrics. 2D Materials, 2018, 5, 045008.	2.0	5
16	High Thermoelectric Performance in Crystallographically Textured n-Type Bi₂Te_{3–x}Se_x Produced from Asymmetric Colloidal Nanocrystals. ACS Nano, 2018, 12, 7174-7184.	7.3	114
17	Oxidation at the atomic scale. Science, 2017, 356, 245-245.	6.0	3
18	Bottom-up engineering of thermoelectric nanomaterials and devices from solution-processed nanoparticle building blocks. Chemical Society Reviews, 2017, 46, 3510-3528.	18.7	184

#	Article	IF	Citations
19	Tuning Branching in Ceria Nanocrystals. Chemistry of Materials, 2017, 29, 4418-4424.	3.2	19
20	Solution-based synthesis and processing of Sn- and Bi-doped Cu₃SbSe₄nanocrystals, nanomaterials and ring-shaped thermoelectric generators. Journal of Materials Chemistry A, 2017, 5, 2592-2602.	5.2	73
21	Tuning p-Type Transport in Bottom-Up-Engineered Nanocrystalline Pb Chalcogenides Using Alkali Metal Chalcogenides as Capping Ligands. Chemistry of Materials, 2017, 29, 7093-7097.	3.2	27
22	Thermoelectric properties of semiconductor-metal composites produced by particle blending. APL Materials, 2016, 4, .	2.2	50
23	Colloidal AgSbSe₂ nanocrystals: surface analysis, electronic doping and processing into thermoelectric nanomaterials. Journal of Materials Chemistry C, 2016, 4, 4756-4762.	2.7	27
24	Synthesis and Thermoelectric Properties of Noble Metal Ternary Chalcogenide Systems of Agâ€“Auâ€“Se in the Forms of Alloyed Nanoparticles and Colloidal Nanoheterostructures. Chemistry of Materials, 2016, 28, 7017-7028.	3.2	26
25	High-performance thermoelectric nanocomposites from nanocrystal building blocks. Nature Communications, 2016, 7, 10766.	5.8	224
26	Mn₃O₄@CoMn₂O₄â€“Co_xO_yNanoparticle Partial Cation Exchange Synthesis and Electrocatalytic Properties toward the Oxygen Reduction and Evolution Reactions. ACS Applied Materials & Interfaces, 2016, 8, 17435-17444.	4.0	72
27	Autonomous soil moisture sensor based on nanostructured thermosensitive resistors powered by an integrated thermoelectric generator. Sensors and Actuators A: Physical, 2016, 239, 1-7.	2.0	28
28	Electron Doping in Bottom-Up Engineered Thermoelectric Nanomaterials through HCl-Mediated Ligand Displacement. Journal of the American Chemical Society, 2015, 137, 4046-4049.	6.6	98
29	Colloidal synthesis and functional properties of quaternary Cu-based semiconductors: Cu2HgGeSe4. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	7
30	Thermoelectric properties of bottom-up assembled Bi<SUB align="right">2S<SUB align="right">3xTe<SUB align="right">x nanocomposites. International Journal of Nanotechnology, 2014, 11, 773.	0.1	7
31	Bottom-up processing of PbTe-PbS thermoelectric nanocomposites. International Journal of Nanotechnology, 2014, 11, 955.	0.1	4
32	Cu2HgSnSe4 nanoparticles: synthesis and thermoelectric properties. CrystEngComm, 2013, 15, 8966.	1.3	25
33	Metal Ions To Control the Morphology of Semiconductor Nanoparticles: Copper Selenide Nanocubes. Journal of the American Chemical Society, 2013, 135, 4664-4667.	6.6	112
34	Organic ligand displacement by metal salts to enhance nanoparticle functionality: thermoelectric properties of Ag2Te. Journal of Materials Chemistry A, 2013, 1, 4864.	5.2	54
35	Colloidal synthesis and thermoelectric properties of Cu₂SnSe₃nanocrystals. Journal of Materials Chemistry A, 2013, 1, 1421-1426.	5.2	86
36	Coreâ€“Shell Nanoparticles As Building Blocks for the Bottom-Up Production of Functional Nanocomposites: PbTeâ€“PbS Thermoelectric Properties. ACS Nano, 2013, 7, 2573-2586.	7.3	137

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37	CuTe Nanocrystals: Shape and Size Control, Plasmonic Properties, and Use as SERS Probes and Photothermal Agents. Journal of the American Chemical Society, 2013, 135, 7098-7101.	6.6	403
38	Cu₂ZnGeSe₄ Nanocrystals: Synthesis and Thermoelectric Properties. Journal of the American Chemical Society, 2012, 134, 4060-4063.	6.6	199
39	Bottom-up processing of thermoelectric nanocomposites from colloidal nanocrystal building blocks: the case of Ag2Teâ€“PbTe. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	30
40	Composition Control and Thermoelectric Properties of Quaternary Chalcogenide Nanocrystals: The Case of Stannite Cu₂CdSnSe₄. Chemistry of Materials, 2012, 24, 562-570.	3.2	153
41	Crystallographic Control at the Nanoscale To Enhance Functionality: Polytypic Cu₂GeSe₃ Nanoparticles as Thermoelectric Materials. Chemistry of Materials, 2012, 24, 4615-4622.	3.2	79
42	Continuous Production of Cu₂ZnSnS₄ Nanocrystals in a Flow Reactor. Journal of the American Chemical Society, 2012, 134, 1438-1441.	6.6	175
43	Growth Kinetics of Asymmetric Bi2S3 Nanocrystals: Size Distribution Focusing in Nanorods. Journal of Physical Chemistry C, 2011, 115, 7947-7955.	1.5	43
44	Morphology evolution of Cu2â˜’xS nanoparticles: from spheres to dodecahedrons. Chemical Communications, 2011, 47, 10332.	2.2	107
45	Means and Limits of Control of the Shell Parameters in Hollow Nanoparticles Obtained by the Kirkendall Effect. Chemistry of Materials, 2011, 23, 3095-3104.	3.2	67
46	Electron Radiation Damage in TiOx Nanobelts. Microscopy and Microanalysis, 2009, 15, 1340-1341.	0.2	0
47	Thermoelectric power factor of LSCoO compounds. Microelectronics Journal, 2008, 39, 548-550.	1.1	7
48	Thermoelectric figure of merit of LSCoOâ€“Mn perovskites. Microelectronics Journal, 2008, 39, 1236-1238.	1.1	1
49	Thermoelectric properties of polycrystalline samples prepared by solid state reaction method. Physica B: Condensed Matter, 2008, 403, 3976-3979.	1.3	9
50	Thermoelectric properties of Bi-Sb samples grown by mechanical alloy. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3677-3680.	0.8	4
51	Seebeck coefficient of Bi-Sb samples grown by mechanical alloying. , 2005, , .		1