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List of Publications by Year in descending order

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63
papers

1,192
citations

430874

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414414

32
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all docs

67
docs citations

67
times ranked

1850
citing authors

#	ARTICLE	IF	CITATIONS
1	Preface for the Special Issue "Trends in Educational Gamification: Challenges and Learning Opportunities"; Education Sciences, 2022, 12, 179.	2.6	4
2	MoS2-based nanofluids as heat transfer fluid in parabolic trough collector technology. Renewable Energy, 2022, 188, 721-730.	8.9	19
3	Hydrogen implantation-induced blistering in diamond: Toward diamond layer transfer by the Smart Cut, technique. Diamond and Related Materials, 2022, 126, 109085.	3.9	1
4	NiO nanowire-containing heat transfer nanofluids for CSP plants: Experiments and simulations to promote their application. Journal of Molecular Liquids, 2022, 361, 119593.	4.9	3
5	Interface chemistry effects in nanofluids: Experimental and computational study of oil-based nanofluids with gold nanoplates. Journal of Molecular Liquids, 2022, 362, 119762.	4.9	3
6	CuO-containing oil-based nanofluids for concentrating solar power: An experimental and computational integrated insight. Journal of Molecular Liquids, 2021, 325, 114643.	4.9	9
7	Comprehensive nanoscopic analysis of tungsten carbide/Oxygenated-diamond contacts for Schottky barrier diodes. Applied Surface Science, 2021, 537, 147874.	6.1	2
8	Formative Potential of the Development and Assessment of an Educational Escape Room Designed to Integrate Music-Mathematical Knowledge. Education Sciences, 2021, 11, 131.	2.6	10
9	Face-to-Face vs. E-Learning Models in the COVID-19 Era: Survey Research in a Spanish University. Education Sciences, 2021, 11, 293.	2.6	18
10	Tuning the structural, optical and photoluminescence properties of hybrid perovskite quantum dots by A-site doping. Applied Materials Today, 2020, 18, 100488.	4.3	6
11	Boron nitride nanotubes-based nanofluids with enhanced thermal properties for use as heat transfer fluids in solar thermal applications. Solar Energy Materials and Solar Cells, 2020, 205, 110266.	6.2	51
12	WSe ₂ Nanosheets Synthesized by a Solvothermal Process as Advanced Nanofluids for Thermal Solar Energy. ACS Sustainable Chemistry and Engineering, 2020, 8, 1627-1636.	6.7	20
13	Insights into the stability and thermal properties of WSe ₂ -based nanofluids for concentrating solar power prepared by liquid phase exfoliation. Journal of Molecular Liquids, 2020, 319, 114333.	4.9	10
14	Educational Escape Rooms as a Tool for Horizontal Mathematization: Learning Process Evidence. Education Sciences, 2020, 10, 213.	2.6	21
15	The Role of the Interactions at the Tungsten Disulphide Surface in the Stability and Enhanced Thermal Properties of Nanofluids with Application in Solar Thermal Energy. Nanomaterials, 2020, 10, 970.	4.1	11
16	Lattice performance during initial steps of the Smart-Cut, process in semiconducting diamond: A STEM study. Applied Surface Science, 2020, 528, 146998.	6.1	4
17	Surface States of (100) O-Terminated Diamond: Towards Other 1 Å– 1:O Reconstruction Models. Nanomaterials, 2020, 10, 1193.	4.1	12
18	The effect of a complex A-site cation and mixed halides in the emission properties of perovskite quantum dots. Journal of Molecular Liquids, 2020, 314, 113674.	4.9	2

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19	Novel WS ₂ -Based Nanofluids for Concentrating Solar Power: Performance Characterization and Molecular-Level Insights. ACS Applied Materials & Interfaces, 2020, 12, 5793-5804.	8.0	22
20	Codiseño de problemas geométricos apoyados en TICs: estudio de un caso con estudiantes de maestros bajo un modelo de aprendizaje mixto. Edutec, 2020, , 94-113.	0.4	2
21	Synthesis of W-doped TiO ₂ by low-temperature hydrolysis: Effects of annealing temperature and doping content on the surface microstructure and photocatalytic activity. Journal of the Chinese Chemical Society, 2019, 66, 99-109.	1.4	14
22	Intrinsic stability analysis of perovskite nanopowder with double and triple cation in a site, F _x MA(1-x)PbI ₃ and F _x Cs _y MA(1-x-y)PbI ₃ . Materials Research Bulletin, 2019, 119, 110528.	5.2	5
23	2D MoSe ₂ -based nanofluids prepared by liquid phase exfoliation for heat transfer applications in concentrating solar power. Solar Energy Materials and Solar Cells, 2019, 200, 109972.	6.2	28
24	Stability and Thermal Properties Study of Metal Chalcogenide-Based Nanofluids for Concentrating Solar Power. Energies, 2019, 12, 4632.	3.1	4
25	Experimental analysis of water-based nanofluids using boron nitride nanotubes with improved thermal properties. Journal of Molecular Liquids, 2019, 277, 93-103.	4.9	42
26	Eficacia comparativa de métodos de aprendizaje mixto en la enseñanza de nuevos algoritmos a maestros en formación: estudio de un caso para la elaboración de directrices de diseño. Brazilian Journal of Development, 2019, 5, 7431-7444.	0.1	1
27	Sala de fuga e aprendizagem mista como ferramentas para a formação de professores do ensino primário. Brazilian Journal of Development, 2019, 5, 5983-5992.	0.1	2
28	Proceso coordinado de formación de maestros del grado de educación primaria. Brazilian Journal of Development, 2019, 5, 6130-6135.	0.1	0
29	El modelo de escuela rural como responsable de la migración de los jóvenes de sus territorios. Brazilian Journal of Development, 2019, 5, 7410-7425.	0.1	0
30	Impact of Nonhomoepitaxial Defects in Depleted Diamond MOS Capacitors. IEEE Transactions on Electron Devices, 2018, 65, 1830-1837.	3.0	6
31	Revealing at the molecular level the role of the surfactant in the enhancement of the thermal properties of the gold nanofluid system used for concentrating solar power. Physical Chemistry Chemical Physics, 2018, 20, 2421-2430.	2.8	7
32	Unraveling the role of the base fluid arrangement in metal-nanofluids used to enhance heat transfer in concentrating solar power plants. Journal of Molecular Liquids, 2018, 252, 271-278.	4.9	6
33	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. Journal of Molecular Liquids, 2018, 252, 211-217.	4.9	17
34	Dramatically enhanced thermal properties for TiO ₂ -based nanofluids for being used as heat transfer fluids in concentrating solar power plants. Renewable Energy, 2018, 119, 809-819.	8.9	44
35	Oxygen termination of homoepitaxial diamond surface by ozone and chemical methods: An experimental and theoretical perspective. Applied Surface Science, 2018, 433, 408-418.	6.1	40
36	Investigation of enhanced thermal properties in NiO-based nanofluids for concentrating solar power applications: A molecular dynamics and experimental analysis. Applied Energy, 2018, 211, 677-688.	10.1	51

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37	A Solvothermal Synthesis of TiO ₂ Nanoparticles in a Non-Polar Medium to Prepare Highly Stable Nanofluids with Improved Thermal Properties. <i>Nanomaterials</i> , 2018, 8, 816.	4.1	14
38	Visible-Light-Enhanced Photocatalytic Activity of Totally Inorganic Halide-Based Perovskite. <i>ChemistrySelect</i> , 2018, 3, 10226-10235.	1.5	21
39	Determination of alumina bandgap and dielectric functions of diamond MOS by STEM-VEELS. <i>Applied Surface Science</i> , 2018, 461, 93-97.	6.1	16
40	MoS ₂ nanosheets vs. nanowires: preparation and a theoretical study of highly stable and efficient nanofluids for concentrating solar power. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14919-14929.	10.3	24
41	High resolution boron content profilometry at $\dot{\Gamma}$ -doping epitaxial diamond interfaces by CTEM. <i>Applied Surface Science</i> , 2018, 461, 221-226.	6.1	2
42	Towards the improvement of the global efficiency of concentrating solar power plants by using Pt-based nanofluids: The internal molecular structure effect. <i>Applied Energy</i> , 2018, 228, 2262-2274.	10.1	16
43	Atomic composition of WC/ and Zr/O-terminated diamond Schottky interfaces close to ideality. <i>Applied Surface Science</i> , 2017, 395, 200-207.	6.1	20
44	The impact of Pd on the light harvesting in hybrid organic-inorganic perovskite for solar cells. <i>Nano Energy</i> , 2017, 34, 141-154.	16.0	28
45	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. <i>Applied Energy</i> , 2017, 194, 19-29.	10.1	54
46	Preparation of Au nanoparticles in a non-polar medium: obtaining high-efficiency nanofluids for concentrating solar power. An experimental and theoretical perspective. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12483-12497.	10.3	34
47	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. <i>ChemPhysChem</i> , 2017, 18, 346-356.	2.1	8
48	Impact of Thermal Treatments in Crystalline Reconstruction and Electrical Properties of Diamond Ohmic Contacts Created by Boron Ion Implantation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700230.	1.8	7
49	Twins and strain relaxation in zinc-blende GaAs nanowires grown on silicon. <i>Applied Surface Science</i> , 2017, 395, 195-199.	6.1	6
50	Hybrid Perovskite, CH ₃ NH ₃ PbI ₃ , for Solar Applications: An Experimental and Theoretical Analysis of Substitution in A and B Sites. <i>Journal of Nanomaterials</i> , 2017, 1-10.	2.7	8
51	On the enhancement of heat transfer fluid for concentrating solar power using Cu and Ni nanofluids: An experimental and molecular dynamics study. <i>Nano Energy</i> , 2016, 27, 213-224.	16.0	66
52	Potential barrier heights at metal on oxygen-terminated diamond interfaces. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	18
53	Tm-doped TiO ₂ and Tm ₂ Ti ₂ O ₇ pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 605-616.	2.8	20
54	New insights into organic-inorganic hybrid perovskite CH ₃ NH ₃ PbI ₃ nanoparticles. An experimental and theoretical study of doping in Pb ²⁺ sites with Sn ²⁺ , Sr ²⁺ , Cd ²⁺ and Ca ²⁺ . <i>Nanoscale</i> , 2015, 7, 6216-6229.	5.6	216

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55	Revealing the role of Pb ²⁺ in the stability of organic-inorganic hybrid perovskite CH ₃ NH ₃ Pb _{1-x} Cd _x I ₃ : an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23886-23896.	2.8	38
56	3C-SiC Seeded Growth on Diamond Substrate by VLS Transport. <i>Materials Science Forum</i> , 2014, 778-780, 234-237.	0.3	0
57	Heteroepitaxial CVD Growth of 3C-SiC on Diamond Substrate. <i>Materials Science Forum</i> , 2014, 778-780, 226-229.	0.3	1
58	Critical boron-doping levels for generation of dislocations in synthetic diamond. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	28
59	Electronic and physico-chemical properties of nanometric boron delta-doped diamond structures. <i>Journal of Applied Physics</i> , 2014, 116, 083702.	2.5	26
60	Metal-oxide-diamond interface investigation by TEM: Toward MOS and Schottky power device behavior. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2367-2371.	1.8	8
61	Diamond as substrate for 3C-SiC growth: A TEM study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2302-2306.	1.8	0
62	Boron concentration profiling by high angle annular dark field-scanning transmission electron microscopy in homoepitaxial I-doped diamond layers. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	14
63	Enhanced thermophysical properties in spinel CuFe ₂ O ₄ -based nanofluids for concentrated solar power. <i>International Journal of Energy Research</i> , 0, , .	4.5	1