

Laurent Cario

List of Publications by Year in descending order

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154
papers

4,927
citations

76196

40
h-index

110170

64
g-index

161
all docs

161
docs citations

161
times ranked

5967
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly and Characterization of Layered Double Hydroxide/DNA Hybrids. Nano Letters, 2006, 6, 199-204.	4.5	266
2	A Leakyâ€¦Integrateâ€¦andâ€¦Fire Neuron Analog Realized with a Mott Insulator. Advanced Functional Materials, 2017, 27, 1604740.	7.8	186
3	Superconducting Density of States and Vortex Cores of $2H\text{-NbS}_2$. Physical Review Letters, 2008, 101, 166407.	2.9	183
4	Coherent long-range magnetic bound states in a superconductor. Nature Physics, 2015, 11, 1013-1016.	6.5	155
5	Resistive Switching in Mott Insulators and Correlated Systems. Advanced Functional Materials, 2015, 25, 6287-6305.	7.8	130
6	Electricâ€¦Fieldâ€¦Induced Resistive Switching in a Family of Mott Insulators: Towards a New Class of RRAM Memories. Advanced Materials, 2010, 22, 5193-5197.	11.1	125
7	Amplitude Higgs mode in the $2H\text{-NbS}_2$. Physical Review B, 2014, 89, .	11.1	124
8	Ruthenium polypyridine complexes as sensitizers in NiO based p-type dye-sensitized solar cells: Effects of the anchoring groups. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 219, 235-242.	2.0	117
9	P-Type Nitrogen-Doped ZnO Nanoparticles Stable under Ambient Conditions. Journal of the American Chemical Society, 2012, 134, 464-470.	6.6	115
10	CuGaO ₂ : a promising alternative for NiO in p-type dye solar cells. Journal of Materials Chemistry, 2012, 22, 14353.	6.7	114
11	Universal Electricâ€¦Fieldâ€¦Driven Resistive Transition in Narrowâ€¦Gap Mott Insulators. Advanced Materials, 2013, 25, 3222-3226.	11.1	114
12	Structure and Magnetic Properties of Oxychalcogenides $A_2F_2Fe_2OQ_2$ (A = Sr, Ba; Q = S, Se) with Fe_2O Square Planar Layers Representing an Antiferromagnetic Checkerboard Spin Lattice. Journal of the American Chemical Society, 2008, 130, 8261-8270.	6.6	105
13	Avalanche breakdown in $GaTa_4Se_8$ narrow-gap Mott insulators. Nature Communications, 2013, 4, 1722.	5.8	100
14	Strong enhancement of superconductivity at high pressures within the charge-density-wave states of $2H\text{-NbS}_2$. Physical Review B, 2016, 93, .	11.1	96
15	Strong anharmonicity induces quantum melting of charge density wave in $2H\text{-NbS}_2$ under pressure. Physical Review B, 2015, 92, .	11.1	93
16	Tuning the size and color of the p-type wide band gap delafossite semiconductor CuGaO ₂ with ethylene glycol assisted hydrothermal synthesis. Journal of Materials Chemistry, 2008, 18, 5647.	6.7	87
17	Simple and Reproducible Procedure to Prepare Self-Nanostructured NiO Films for the Fabrication of P-Type Dye-Sensitized Solar Cells. Inorganic Chemistry, 2009, 48, 8245-8250.	1.9	85
18	Origin of the Black Color of NiO Used as Photocathode in p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 22478-22483.	1.5	76

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19	Electricâ€Pulseâ€driven Electronic Phase Separation, Insulatorâ€™Metal Transition, and Possible Superconductivity in a Mott Insulator. <i>Advanced Materials</i> , 2008, 20, 2760-2765.	11.1	70
20	Anharmonic suppression of charge density waves in 2-H-TaS_2 . <i>Physical Review B</i> , 2012, 86, 080401.	1.1	66
21	Pressure dependence of superconducting critical temperature and upper critical field of 2-H-TaS_2 . <i>Physical Review B</i> , 2013, 87, 080401.	1.1	63
22	Resistive Switching at the Nanoscale in the Mott Insulator Compound GaTa_4Se_8 . <i>Nano Letters</i> , 2013, 13, 3648-3653.	4.5	62
23	Ultrafast Formation of a Charge Density Wave State in 1-T-TaS_2 : Observation at Nanometer Scales Using Time-Resolved X-Ray Diffraction. <i>Physical Review Letters</i> , 2017, 118, 247401.	10.0	60
24	Quasiparticle spectra of 2-H-TaS_2 : Two-band superconductivity and the role of tunneling selectivity. <i>Physical Review B</i> , 2015, 92, 114408.	1.1	56
25	Rational design of new inorganic compounds with the ZrSiCuAs structure type using 2D building blocks. <i>Journal of Materials Chemistry</i> , 2005, 15, 3525.	6.7	55
26	Facile Synthesis of BiCuOS by Hydrothermal Methods. <i>Inorganic Chemistry</i> , 2007, 46, 10741-10748.	1.9	55
27	Half-Metallic Ferromagnetism and Large Negative Magnetoresistance in the New Lacunar Spinel GaTi_3VS_8 . <i>Journal of the American Chemical Society</i> , 2010, 132, 5704-5710.	6.6	55
28	Specific heat measurements of a superconducting 2-H-TaS_2 crystal in an external magnetic field: Energy gap structure. <i>Physical Review B</i> , 2010, 82, 080401.	1.1	52
29	First-Order Insulator-to-Metal Mott Transition in the Paramagnetic 3D System GaTa_4Se_8 . <i>Physical Review Letters</i> , 2014, 113, 086404.	2.9	52
30	Orbital-Ordering-Driven Multiferroicity and Magnetoelectric Coupling in GeV_4S_8 . <i>Physical Review Letters</i> , 2014, 113, 137602.	2.9	51
31	Crystal structures of two new oxysulfides $\text{La}_5\text{Ti}_2\text{MS}_5\text{O}_7$ (M=Cu, Ag): evidence of anionic segregation. <i>Journal of Solid State Chemistry</i> , 2004, 177, 2810-2817.	1.4	49
32	Optical Conductivity Measurements of GaTa_4Se_8 High Pressure: Evidence of a Bandwidth-Controlled Insulator-to-Metal Mott Transition. <i>Physical Review Letters</i> , 2013, 110, 037401.	2.9	49
33	Impact of Mg Doping on Performances of CuGaO_2 Based p-Type Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 54-59.	1.5	47
34	CuO nanomaterials for p-type dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 112765-112770.	1.7	46
35	Designing New Inorganic Compounds from 2D Building Blocks. <i>Chemistry of Materials</i> , 2005, 17, 234-236.	3.2	45
36	Chiral charge order in the superconductor 2-H-TaS_2 . <i>New Journal of Physics</i> , 2011, 13, 103020.	1.2	45

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37	Nonthermal and purely electronic resistive switching in a Mott memory. <i>Physical Review B</i> , 2014, 90, .	1.1	44
38	Higgs-mode radiance and charge-density-wave order in HfNbS_2 . <i>Physical Review B</i> , 2018, 97, .	1.1	44
39	Hole conductivity and acceptor density of p-type CuGaO ₂ nanoparticles determined by impedance spectroscopy: The effect of Mg doping. <i>Electrochimica Acta</i> , 2013, 113, 570-574.	2.6	43
40	Copper borate as a photocathode in p-type dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 1549-1553.	1.7	41
41	Traces of charge density waves in NbS_2 . <i>Physical Review B</i> , 2018, 97, .	1.1	41
42	Engineering Processes at the Interface of p-Type Semiconductor for Enhancing the Open Circuit Voltage in p-Type Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601776.	10.2	36
43	Inorganic Molybdenum Clusters as Light Harvester in All Inorganic Solar Cells: A Proof of Concept. <i>ChemistrySelect</i> , 2016, 1, 2284-2289.	0.7	35
44	Design of a New Family of Inorganic Compounds $\text{Ae}_2\text{F}_2\text{SnX}_3$ (Ae = Sr, Ba; X = S, Se) Using Rock Salt and Fluorite 2D Building Blocks. <i>Inorganic Chemistry</i> , 2006, 45, 917-922.	1.9	33
45	Scanning tunneling measurements of layers of superconducting TaSe_2 . <i>Physical Review B</i> , 2013, 87, .	1.1	33
46	How a dc Electric Field Drives Mott Insulators Out of Equilibrium. <i>Physical Review Letters</i> , 2018, 121, 016601.	2.9	33
47	$\text{Ae}_2\text{Sb}_2\text{X}_4\text{F}_2$ (Ae = Sr, Ba): A New Members of the Homologous Series $\text{Ae}_2\text{M}_{1+n}\text{X}_3+n\text{F}_2$ Designed from Rock Salt and Fluorite 2D Building Blocks. <i>Inorganic Chemistry</i> , 2006, 45, 2713-2717.	1.9	32
48	Stability and charge transfer in the misfit compound $(\text{LaS})(\text{SrS})_{0.2}\text{CrS}_2$: Ab initio band-structure calculations. <i>Physical Review B</i> , 1997, 55, 9409-9414.	1.1	31
49	Direct experimental observation of the molecular $J_{\text{eff}} = 3/2$ ground state in the lacunar spinel GaTa_4Se_8 . <i>Nature Communications</i> , 2017, 8, 782.	5.8	30
50	Synthesis of p-Type Transparent LaOCuS Nanoparticles via Soft Chemistry. <i>Inorganic Chemistry</i> , 2010, 49, 3074-3076.	1.9	29
51	Strain wave pathway to semiconductor-to-metal transition revealed by time-resolved X-ray powder diffraction. <i>Nature Communications</i> , 2021, 12, 1239.	5.8	29
52	Electric-pulse-induced resistive switching and possible superconductivity in the Mott insulator GaTa_4Se_8 . <i>Microelectronic Engineering</i> , 2008, 85, 2430-2433.	1.1	28
53	Control of the Electronic Properties and Resistive Switching in the New Series of Mott Insulators $\text{GaTa}_{4-x}\text{Se}_{8-2x}\text{Te}_x$ (0 $\leq x \leq 6.5$). <i>Chemistry of Materials</i> , 2011, 23, 2611-2618.	3.2	28
54	Charge Transfer in Misfit Layer Chalcogenides, $[(\text{MX})_n]^{n+}(\text{TX})_m^{m-}$: a Key for Understanding their Stability and Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 341, 1-8.	0.3	27

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55	Metal-Metal Bonding and Correlated Metallic Behavior in the New Deficient Spinel Ga _{0.87} Ti ₄ S ₈ . Chemistry of Materials, 2008, 20, 2382-2387.	3.2	27
56	Cu ₂ O@CuO core-shell nanoparticles as photocathode for p-type dye sensitized solar cell. Journal of Alloys and Compounds, 2018, 769, 605-610.	2.8	26
57	Mott insulators: A large class of materials for Leaky Integrate and Fire (LIF) artificial neuron. Journal of Applied Physics, 2018, 124, .	1.1	24
58	Evidence of a Mixed-Valence State for Europium in the Misfit Layer Compound [(EuS) _{1.5}] _{1.15} NbS ₂ by Means of a Superspace Structural Determination, Mössbauer Spectroscopy, and Magnetic Measurements. Journal of Solid State Chemistry, 1999, 147, 58-67.	1.4	23
59	Ln ₃ T ₂ N ₆ (Ln=La, Ce, Pr; T=Ta, Nb), a New Family of Ternary Nitrides Isotypic to a High T _c Cuprate Superconductor. Journal of Solid State Chemistry, 2001, 162, 90-95.	1.4	23
60	Mixed-Valence State of Europium in the Misfit Layer Compound (EuS) _{1.173} NbS ₂ . Chemistry of Materials, 2003, 15, 943-950.	3.2	23
61	Electric-Field-Assisted Nanostructuring of a Mott Insulator. Advanced Functional Materials, 2009, 19, 2800-2804.	7.8	23
62	First evidence of resistive switching in polycrystalline GaV ₄ S ₈ thin layers. Physica Status Solidi - Rapid Research Letters, 2011, 5, 53-55.	1.2	23
63	Structural studies of a cubic, high-temperature (\pm) polymorph of Pb ₂ GeS ₄ and the isostructural Pb ₂ ^x S _n GeS ₄ ^y Se _y solid solution. Journal of Alloys and Compounds, 2002, 335, 105-110.	2.8	22
64	Design and magnetic properties of new compounds containing iron 2D building blocks of the perovskite type. Solid State Sciences, 2005, 7, 936-944.	1.5	22
65	P-type transparent conductors Sr _{1-x} NaxFCuS and Sr _{1-x} OxCuS: design, synthesis and physical properties. Journal of Materials Chemistry, 2006, 16, 4165-4169.	6.7	22
66	Synthesis and Structure Determination of La ₈ Ti ₁₀ S ₂₄ O ₄ . Journal of Solid State Chemistry, 1998, 136, 46-50.	1.4	21
67	Synthesis of Ni-poor NiO nanoparticles for p-DSSC applications. Solid State Sciences, 2016, 54, 37-42.	1.5	21
68	Preparation by electrophoretic deposition of molybdenum iodide cluster-based functional nanostructured photoelectrodes for solar cells. Electrochimica Acta, 2019, 317, 737-745.	2.6	21
69	Preparation and Crystal Structure Determination of La ₂₀ Ti ₁₁ S ₄₄ O ₆ . Journal of Solid State Chemistry, 1995, 120, 164-169.	1.4	20
70	Dielectric breakdown and current switching effect in the incommensurate layered compound (LaS) _{1.196} VS ₂ . Physical Review B, 2006, 73, .	1.1	20
71	The first dye-sensitized solar cell with p-type LaOCuS nanoparticles as a photocathode. RSC Advances, 2015, 5, 60148-60151.	1.7	20
72	Modulation of Defects in Semiconductors by Facile and Controllable Reduction: The Case of p-type CuCrO ₂ Nanoparticles. Inorganic Chemistry, 2016, 55, 7729-7733.	1.9	20

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73	Structure of the water-splitting photocatalyst oxysulfide LaOInS_2 and <i>ab initio</i> prediction of new polymorphs. <i>Chemical Communications</i> , 2020, 56, 1645-1648.	2.2	20
74	Cation Deficient Layered Ruddlesden-Popper-Related Oxysulfides $\text{La}_2\text{LnMS}_2\text{O}_5$ (Ln = La, Y; M = Nb, Ta). <i>Inorganic Chemistry</i> , 2007, 46, 9584-9590.	1.9	19
75	Electrical characterizations of resistive random access memory devices based on GaV4S8 thin layers. <i>Thin Solid Films</i> , 2013, 533, 61-65.	0.8	19
76	Preparation of nitrogen doped zinc oxide nanoparticles and thin films by colloidal route and low temperature nitridation process. <i>Solid State Sciences</i> , 2016, 54, 30-36.	1.5	19
77	Temperature and size dependence of time-resolved exciton recombination in ZnO quantum dots. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	18
78	Control of resistive switching in AM_4Q_8 narrow gap Mott insulators: A first step towards neuromorphic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 239-244.	0.8	18
79	Synthesis, X-ray and optical characterizations of two new oxysulfides: LaInS_2O and $\text{La}_5\text{In}_3\text{S}_9\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 2004, 177, 1053-1059.	1.4	17
80	Unravelling the origin of the giant Zn deficiency in wurtzite type ZnO nanoparticles. <i>Scientific Reports</i> , 2015, 5, 12914.	1.6	17
81	Metal-insulator transitions in $(\text{V}_{1-x}\text{Cr}_x)_2\text{O}_3$ thin films deposited by reactive direct current magnetron co-sputtering. <i>Thin Solid Films</i> , 2016, 617, 56-62.	0.8	17
82	Misfit Layer Compounds: A Platform for Heavily Doped 2D Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2021, 31, 2007706.	7.8	17
83	Resistive Switching Induced by Electric Pulses in a Single-Component Molecular Mott Insulator. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2983-2988.	1.5	15
84	A Topochemical Approach to Synthesize Layered Materials Based on the Redox Reactivity of Anionic Chalcogen Dimers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13618-13623.	7.2	15
85	Determination of the modulated structure of the misfit layer compound $(\text{LaS})_{1.196}\text{VS}_2$. <i>Materials Research Bulletin</i> , 2005, 40, 125-133.	2.7	14
86	In-plane magnetic penetration depth in NbS_2 . <i>Physical Review B</i> , 2011, 84, .	1.1	14
87	Electric field induced avalanche breakdown and non-volatile resistive switching in the Mott Insulators AM_4Q_8 . <i>European Physical Journal: Special Topics</i> , 2013, 222, 1046-1056.	1.2	14
88	Ultrafast filling of an electronic pseudogap in an incommensurate crystal. <i>Physical Review B</i> , 2013, 87, .	1.1	14
89	X-ray study of femtosecond structural dynamics in the 2D charge density wave compound 1T-TaS_2 . <i>Physica B: Condensed Matter</i> , 2015, 460, 100-104.	1.3	14
90	Experimental and Theoretical Evidences of p-Type Conductivity in Nickel Carbodiimide Nanoparticles with a Delafossite Structure Type. <i>Inorganic Chemistry</i> , 2017, 56, 7922-7927.	1.9	14

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109	Synthesis of light-coloured nanoparticles of wide band gap $\text{p}\text{-}\text{type}$ semiconductors CuGaO_2 and LaOCuS by low temperature hydro/solvothermal processes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1642-1646.	0.8	9
110	Deposition by radio frequency magnetron sputtering of GaV_4S_8 thin films for resistive random access memory application. <i>Thin Solid Films</i> , 2013, 533, 54-60.	0.8	9
111	A p-Type Zinc-Based Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2017, 56, 6208-6213.	1.9	9
112	Non-volatile resistive switching in the Mott insulator $(\text{V}_{1-x}\text{Cr}_x)\text{VO}_3$. <i>Physica B: Condensed Matter</i> , 2018, 536, 327-330.	1.3	9
113	Coherent and Incoherent Tunneling into Yu-Shiba-Rusinov States Revealed by Atomic Scale Shot-Noise Spectroscopy. <i>Physical Review Letters</i> , 2022, 128, .	2.9	9
114	A mixed-valent niobium oxysulfide, $\text{La}_2\text{Nb}_3\text{S}_2\text{O}_8$. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, i55-i56.	0.4	7
115	Deposition of GaV_4S_8 thin films by $\text{H}_2\text{S}/\text{Ar}$ reactive sputtering for ReRAM applications. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 065309.	1.3	7
116	$\text{Ba}_2\text{F}_2\text{Fe}_{1.5}\text{Se}_3$: An Intergrowth Compound Containing Iron Selenide Layers. <i>Inorganic Chemistry</i> , 2016, 55, 2923-2928.	1.9	7
117	Unexplored reactivity of $(\text{S}_n)^{2-}$ oligomers with transition metals in low-temperature solid-state reactions. <i>Chemical Communications</i> , 2019, 55, 6189-6192.	2.2	7
118	Prediction of a New Layered Polymorph of FeS_2 with $\text{Fe}^{3+}\text{S}^{2-}(\text{S}_2)^{2-}$ $1/2$ Structure. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8861-8866.	2.1	7
119	Competition between V_2O_3 phases deposited by one-step reactive sputtering process on polycrystalline conducting electrode. <i>Thin Solid Films</i> , 2020, 705, 138063.	0.8	7
120	Re-examination of yushkinite: chemical composition, optical properties and interlayer charge transfer. <i>Mineralogical Magazine</i> , 1999, 63, 879-889.	0.6	5
121	A gadolinium and niobium oxide sulfide, $\text{Gd}_3\text{Nb}_3\text{S}_3\text{O}_4$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, i101-i102.	0.2	5
122	Studies on two-gap superconductivity in 2H-NbS_2 . <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S719-S720.	0.6	5
123	Relation between Thermally Induced Structural Distortions and Electronic Properties of the Layered Misfit Chalcogenide $(\text{LaS})_{1.196}\text{VS}_2$. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19273-19279.	1.5	5
124	Two-Gap Superconductivity in 2H-NbS_2 . <i>Acta Physica Polonica A</i> , 2010, 118, 1024-1025.	0.2	5
125	A new lanthanum titanium oxysulfide, $\text{La}_{16}\text{Ti}_5\text{S}_{17+x}\text{O}_{17}$, with $x=0.75$ (9). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, i63-i64.	0.4	4
126	Impact of Nanostructuring on the Chemical Composition of Nickel Oxide Nanoparticles. <i>Inorganic Chemistry</i> , 2019, 58, 15004-15007.	1.9	4

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127	metallic phase and unconventional superconductivity in $\text{JTa}_4\text{O}_{13}$. <i>Physical Review B</i> , 2021, 103, .	1.1	4
128	Synthesis and Physical Properties of Co-intercalated Layered Lanthanide Oxychlorides $\text{Li}_x\text{THyLnOCl}$ (Ln = Y, Lu). <i>Chemistry of Materials</i> , 2003, 15, 4325-4331.	3.2	3
129	Crystal structure and electrical properties of the mixed valent titanium oxysulfide $\text{Sm}_2\text{Ti}_2\text{S}_2\text{O}_4.5$. <i>Journal of Solid State Chemistry</i> , 2004, 177, 2464-2469.	1.4	3
130	Synthesis and crystal structure of a new oxychalcogenide $\text{La}_5\text{Ti}_3\text{Zr}_4\text{O}_{25}\text{S}_9$. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1637-1643.	1.4	3
131	Thin Layers Obtained by Plasma Process for Emerging Non-Volatile Memory (RRAM) Applications. , 2009, , .		3
132	Solvothermal and mechanochemical intercalation of Cu into $\text{La}_2\text{O}_2\text{S}_2$ enabled by the redox reactivity of $(\text{S}_2)^{2-}$ pairs. <i>Dalton Transactions</i> , 2021, 50, 12419-12423.	1.6	3
133	A new misfit bilayer compound in the samarium titanium sulfur system. <i>Materials Research Bulletin</i> , 1996, 31, 1307-1316.	2.7	2
134	Rational conception of inorganic compounds using 2D secondary building units. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2867-2870.	0.8	2
135	(Invited) Control of Resistive Switching in Mott Memories Based on $\text{TiN}/\text{AM4Q8}/\text{TiN}$ MIM Devices. <i>ECS Transactions</i> , 2017, 75, 3-12.	0.3	2
136	Control of stoichiometry and morphology in polycrystalline V_2O_3 thin films using oxygen buffers. <i>Journal of Materials Science</i> , 2020, 55, 14717-14727.	1.7	2
137	Periodic Surface Modulation of $(\text{LaSe})_{1.14}(\text{NbSe})_2$ Observed by Scanning Tunneling Microscopy. <i>Acta Physica Polonica A</i> , 2020, 137, 785-787.	0.2	2
138	Photoinduced charge density wave phase in 1T-TaS_2 : growth and coarsening mechanisms. <i>Comptes Rendus Physique</i> , 2021, 22, 139-160.	0.3	2
139	Correlated transition metal oxides and chalcogenides for Mott memories and neuromorphic applications. , 2022, , 307-360.		2
140	Preparation and crystal structure determination of $\text{Eu}_{27}\text{Ti}_{20}\text{X}_{25}\text{O}_{12}$ ($X = \text{I}^{0.35}\text{Cl}^{0.65}$). <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 1998, 1, 115-121.	0.1	1
141	An Artificial Neuron Founded on Resistive Switching of Mott Insulators. , 2017, , .		1
142	A Topochemical Approach to Synthesize Layered Materials Based on the Redox Reactivity of Anionic Chalcogen Dimers. <i>Angewandte Chemie</i> , 2018, 130, 13806-13811.	1.6	1
143	Mott Memory Devices Based on the Mott Insulator $(\text{V}_{1-x}\text{Cr}_x)_2\text{O}_3$. , 2018, , .		1
144	THz Driven Dynamics in Mott Insulator GaTa_4Se_8 . , 2019, , .		1

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145	Artificial Electro-Optical Neuron Integrating Hot Electrons in a Mott Insulator. <i>Physical Review Applied</i> , 2022, 17, .	1.5	1
146	A Mixed-Valent Niobium Oxysulfide, La ₂ Nb ₃ S ₂ O ₈ .. <i>ChemInform</i> , 2003, 34, no.	0.1	0
147	Design and Magnetic Properties of New Compounds Containing Iron 2D Building Blocks of the Perovskite Type.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
148	Mott-memories Based on the Narrow Gap Mott Insulators AM ₄ Q ₈ (A=Ga, Ge ; M = V, Nb, Ta ; Q = S, Se). <i>Materials Research Society Symposia Proceedings</i> , 2013, 1562, 1.	0.1	0
149	From Resistive Switching Mechanisms in AM ₄ Q ₈ Mott Insulators to Mott Memories. , 2015, , .		0
150	Mapping metal/insulator nanodomains switching in V ₂ O ₃ by variable-temperature electron spectromicroscopy investigations. <i>Microscopy and Microanalysis</i> , 2021, 27, 1482-1485.	0.2	0
151	Coherent phonon dynamics in misfit-layered chalcogenide LaVS ₃ crystal. , 2018, , .		0
152	Unusually long carrier lifetime in a Mott insulator revealed by time-resolved Photoemission Electron Microscopy. , 2020, , .		0
153	Probing and Mapping the Dynamics of Metal/Insulator Nanodomains Switching in V ₂ O ₃ by Cryo-Spectromicroscopy Techniques. <i>Microscopy and Microanalysis</i> , 2021, 27, 67-68.	0.2	0
154	Nanoprobe study of the electric field driven insulator-to-metal transition in GaMo ₄ S ₈ . <i>Journal of Physics: Conference Series</i> , 2022, 2164, 012046.	0.3	0