Christophe Payen

List of Publications by Year
in descending order

101	2,832	159358	189595
papers	citations	30 h-index	50 g-index

117	117	117	3270
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanocrystalline BaCo₃(VO₄)₂(OH)₂ with a kagome lattice of Co(<scp>ii</scp>) ions: synthesis, crystal structure and magnetic properties. Journal of Materials Chemistry C, 2022, 10, 3287-3291.	2.7	4
2	Investigating the Cycling Stability of Fe2WO6 Pseudocapacitive Electrode Materials. Nanomaterials, 2021, 11, 1405.	1.9	9
3	Composites between Perovskite and Layered Co-Based Oxides for Modification of the Thermoelectric Efficiency. Materials, 2021, 14, 7019.	1.3	4
4	Unveiling Pseudocapacitive Charge Storage Behavior in FeWO₄ Electrode Material by Operando Xâ€Ray Absorption Spectroscopy. Small, 2020, 16, e2002855.	5.2	16
5	Copper-Substituted NiTiO₃ Ilmenite-Type Materials for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 31038-31048.	4.0	8
6	Strong magnetic exchange and frustrated ferrimagnetic order in a weberite-type inorganicâ€“organic hybrid fluoride. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180224.	1.6	6
7	Cool-SPS stabilization and sintering of thermally fragile, potentially magnetoelectric, NH4FeP2O7. Ceramics International, 2019, 45, 9674-9678.	2.3	13
8	Evidence of Wolframite-Type Structure in Ultrasmall Nanocrystals with a Targeted Composition MnWO₄. Inorganic Chemistry, 2019, 58, 7822-7827.	1.9	5
9	Process- and optoelectronic-control of NiOx thin films deposited by reactive high power impulse magnetron sputtering. Journal of Applied Physics, 2017, 121, .	1.1	21
10	A magnetisation and MÃ¶ssbauer study of triazole (M_{1â^'x}²⁺M_x³⁺)M³⁺F₅(Htaz)_{1â^'x}(taz)<su weberites (M = Fe, Co, Mn, Zn, Ga, V). Dalton Transactions, 2017, 46, 5352-5362.	1.6	9
11	Evidence for a quantum spin liquid in the triangular Cu(<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> quantum spin liquid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub> mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 95, .	1.1	35
12	Phase transitions and magnetic structures in MnW_{1â^'x}Mo_xO₄compounds (xâ€‰â€‰â©½â€‰â€‰0.2). Journal of Physics Condensed Matter, 2016, 28, 336003.	1.8	8
13	A new high pressure form of Ba3NiSb2O9. Journal of Solid State Chemistry, 2016, 237, 166-173.	1.4	11
14	Gapless quantum spin liquid ground state in the spin-1 antiferromagnet 6HB-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub> mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	1.1	39
15	Persistent Type-II Multiferroicity in Nanostructured MnWO₄ Ceramics. Chemistry of Materials, 2016, 28, 7582-7585.	3.2	7
16	Pseudocapacitive FeWO₄ Electrode: From Charge Storage Mechanism to Practical Use in Asymmetric Cell. ECS Meeting Abstracts, 2016, MA2016-02, 937-937.	0.0	1
17	Nanocrystalline FeWO4 as a pseudocapacitive electrode material for high volumetric energy density supercapacitors operated in an aqueous electrolyte. Electrochemistry Communications, 2015, 57, 61-64.	2.3	66
18	Pair Distribution Function and Density Functional Theory Analyses of Hydrogen Trapping by Î³-MnO₂. Inorganic Chemistry, 2015, 54, 1194-1196.	1.9	14

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19	Incorporation of Jahnâ€“Teller Cu²⁺ Ions into Magnetoelectric Multiferroic MnWO₄: Structural, Magnetic, and Dielectric Permittivity Properties of Mn_{1â€“x}Cu_xWO₄ (x â‰¤ 0.25). Inorganic Chemistry, 2015, 54, 10623-10631.	1.9	24
20	FeWO4 As Electrode Material for High Volumetric Capacitance Supercapacitors. ECS Meeting Abstracts, 2015, , .	0.0	0
21	Singlet Ground State of the Quantum Antiferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 109, 117203.	7.5	44
22	Dielectric Study of Unexpected Transitions in Multiferroic Mn1-x(Mg,Zn)xWO4Ceramics. Ferroelectrics, 2012, 428, 94-100.	0.3	2
23	Frustrated magnetism in the S = 1 kagomÃ© lattice BaNi3(OH)2(VO4)2. Chemical Communications, 2012, 48, 64-66.	2.2	53
24	Increasing the Phase-Transition Temperatures in Spin-Frustrated Multiferroic MnWO₄ by Mo Doping. Chemistry of Materials, 2012, 24, 353-360.	3.2	33
25	Spin dynamics, short-range order, and spin freezing in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi fontstyle="normal">Y</mml:mi><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi fontstyle="normal">Y</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Co₄O₁₁. Physical Review B, 2010, 81, .	1.1	22
26	Comparative study of coreâ€“shell iron/iron oxide gold covered magnetic nanoparticles obtained in different conditions. Journal of Nanoparticle Research, 2011, 13, 6181-6192.	0.8	23
27	Phonon control of magnetic relaxation in the pyrochlore slab compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrCr</mml:mtext></mml:mrow><mml:mrow><mml:mn>9</mml:mn> Physical Review B, 2010, 81, .	1.1	11
28	DFT-NMR Investigation and ⁵¹V 3QMAS Experiments for Probing Surface OH Ligands and the Hydrogen-Bond Network in a Polyoxovanadate Cluster: The Case of Cs₄[H₂V₁₀O₂₈]Â·4H₂O. Journal of the American Chemical Society, 2010, 132, 4653-4668.	6.6	32
29	Synthesis and characterization of the coreâ€“shell Au covered LSMO manganite magnetic nanoparticles. Synthetic Metals, 2010, 160, 1692-1698.	2.1	17
30	Effect of Nonmagnetic Substituents Mg and Zn on the Phase Competition in the Multiferroic Antiferromagnet MnWO₄. Chemistry of Materials, 2009, 21, 5203-5214.	3.2	45
31	Magnetic structure and ferroelectric polarization of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>MnWO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow> by density functional calculations and classical spin analysis. Physical Review B, 2009, 80, .	1.1	34
32	Polypyrrole coated magnetite nanoparticles from water based nanofluids. Journal Physics D: Applied Physics, 2008, 41, 245002.	1.3	51
33	On the Cyclability of the Thermochromism in CuMoO₄ and Its Tungsten Derivatives CuMo_{1â€“x}W_xO₄ (x < 0.12). Chemistry of Materials, 2008, 20, 2075-2077.	3.2	27
34	Low-temperature relaxation in kagome bilayer antiferromagnets. Journal of Physics Condensed Matter, 2007, 19, 145254.	0.7	6
35	Adaptable Thermochromism in the CuMo₁_{â€‰}₋_{â€‰}_xW_xO₄ Series (0 â‰¤ x < 0.1):â€‰A Behavior Related to a First-Order Phase Transition with a Transition Temperature Depending on x. Inorganic Chemistry, 2007, 46, 10200-10207.	1.9	57
36	Structure, morphology and magnetic properties of Feâ€“Au core-shell nanoparticles. Surface Science, 2007, 601, 4352-4357.	0.8	34

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37	Phonon-assisted relaxation in a frustrated antiferromagnet. Journal of Magnetism and Magnetic Materials, 2007, 310, 1325-1327.	1.0	0
38	MÃ¶ssbauer effect at 119Sn4+ nuclei in fine crystalline MnO. Russian Journal of Inorganic Chemistry, 2007, 52, 1262-1268.	0.3	3
39	Neutron Spin-Echo Investigation of Slow Spin Dynamics in KagomÃ©-Bilayer Frustrated Magnets as Evidence for Phonon Assisted Relaxation inSrCr9xGa12â^'9xO19. Physical Review Letters, 2006, 97, 047203.	2.9	21
40	First-Principles Calculations within Periodic Boundary Conditions of the NMR Shielding Tensor for a Transition Metal Nucleus in a Solid State System:Â The Example of51V in AlVO4. Journal of Physical Chemistry B, 2006, 110, 21403-21407.	1.2	27
41	Cationic ordering and second-staging structures in copper-chromium and zinc-chromium layered double hydroxides. Applied Clay Science, 2005, 28, 111-120.	2.6	41
42	Spin correlations in the pyrochlore slab compounds Ba2Sn2Ga10Â7pZnCr7pO22. Journal of Physics Condensed Matter, 2004, 16, S835-S842.	0.7	15
43	Magnetoelastic polarons in the hole-doped quasi-one-dimensional model systemY2â^'xCaxBaNiO5. Physical Review B, 2004, 70, .	1.1	1
44	Spin fluctuations in the pyrochlore slab compound Ba2Sn2Ga3ZnCr7O22. Physica B: Condensed Matter, 2004, 350, E289-E291.	1.3	3
45	Photoemission spectroscopy study of the hole-doped Haldane chain Y2â^'xSrxBaNiO5. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 242-247.	0.6	0
46	On the Electrochemical Reactivity Mechanism of CoSb[sub 3] vs. Lithium. Journal of the Electrochemical Society, 2003, 150, A732.	1.3	58
47	Anomalous spectral weight in photoemission spectra of the hole-doped Haldane chainY2â^'xSrxBaNiO5. Physical Review B, 2003, 67, .	1.1	6
48	Trivalent Cation Substitution Effect into Layered Double Hydroxides Co2Fey Al1â^'y(OH)6ClÂ·nH2O: Study of the Local Order. Journal of Solid State Chemistry, 2002, 167, 508-516.	1.4	57
49	Spin configurations in a kagomï¿½-based frustrated antiferromagnet: analysis of dynamic disorder by the reverse Monte Carlo method. Applied Physics A: Materials Science and Processing, 2002, 74, s883-s885.	1.1	4
50	Unconventional antiferromagnetic correlations of the doped Haldane gapsystem Y 2 BaNi 1 - x Zn x O 5. European Physical Journal B, 2002, 25, 39-51.	0.6	2
51	Electronic structure of a hole doped oxide with a quasi-1D crystal structure Y2â^'x(Sr,Ca)xBaNiO5. Journal of Alloys and Compounds, 2001, 317-318, 149-152.	2.8	9
52	High-resolution neutron study of the effects of magnetic dilution in the strongly frustrated system SrCrxGa12Â–xO19. Canadian Journal of Physics, 2001, 79, 1401-1407.	0.4	1
53	Charge-doped nickel oxide, Y1.90Ca0.10BaNiO5. Acta Crystallographica Section E: Structure Reports Online, 2001, 57, i70-i71.	0.2	1
54	Na3Cr2P3S12 and K3Cr2P3S12: Two New One-Dimensional Thiophosphate Compounds with a Novel Structure. Journal of Solid State Chemistry, 2001, 162, 195-203.	1.4	19

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55	Random interactions and spin-glass thermodynamic transition in the hole-doped Haldane systemY2â^'xCaxBaNiO5. Physical Review B, 2001, 63, .	1.1	8
56	High-resolution neutron study of the effects of magnetic dilution in the strongly frustrated system SrCr_xGa_{12Â–x}O₁₉. Canadian Journal of Physics, 2001, 79, 1401-1407.	0.4	6
57	Temperature dependence of the spin dynamics in the strongly frustrated antiferromagnet SrCr9xGa12â^'9xO19 (SCGO). Physica B: Condensed Matter, 2000, 284-288, 1371-1372.	1.3	12
58	Evidence of quantum criticality in the doped Haldane systemY2BaNiO5. Physical Review B, 2000, 62, 2998-3001.	1.1	18
59	Neutron and X-Ray Diffraction Study of the SrCr₈Ga₄O₁₉ Kagome Compound Synthesized by Citrate Route. Materials Science Forum, 2000, 321-324, 828-833.	0.3	2
60	Spin freezing in the kagomÃ© system SrCr8Ga4O19 â€“ high resolution study of the elastic and low-energy dynamic responses. Physica B: Condensed Matter, 1999, 266, 104-107.	1.3	14
61	Polarized neutron scattering study of the kagome antiferromagnet SrCr8Ga4O19. Physica B: Condensed Matter, 1999, 267-268, 139-141.	1.3	17
62	Copper sublattice ordering in layered CuMP2Se6 (M=In, Cr). Journal of Alloys and Compounds, 1999, 283, 122-127.	2.8	70
63	Electrochemical Synthesis for the Control of Î³-Fe2O3 Nanoparticle Size. Morphology, Microstructure, and Magnetic Behavior. Chemistry of Materials, 1999, 11, 141-147.	3.2	330
64	Pressure-induced phase transition in ferrielectric CuInP2S6. Solid State Communications, 1998, 108, 43-47.	0.9	16
65	Nanocomposites Built from MoS₂ and Various Metal-Containing Layers. Molecular Crystals and Liquid Crystals, 1998, 311, 377-382.	0.3	8
66	Ionic conductivity in ferroic CuInP2S6and CuCrP2S6. Ferroelectrics, 1997, 196, 257-260.	0.3	84
67	Low-energy response in the spin-ladder compound (VO)2P2O7. Physica B: Condensed Matter, 1997, 234-236, 895-896.	1.3	3
68	Nanocomposite materials consisting of alternating layers of molybdenum disulfide and cobalt or nickel hydroxides: Magnetic characterization. Solid State Communications, 1997, 102, 419-423.	0.9	12
69	The Synthesis, Crystal Structures and Magnetic Properties of Cu₄(AsO₄)₂(O) and Ba₂Cu₇(AsO₄)₆. Chemische Berichte, 1997, 130, 63-67.	0.2	10
70	Syntheses, Structural Analyses, and Unusual Magnetic Properties of Ba2CoSi2O7 and BaCo2Si2O7. Inorganic Chemistry, 1996, 35, 3492-3497.	1.9	49
71	Copper ordering in lamellar CuMP2S6(M= Cr, In): Transition to an antiferroelectric or ferroelectric phase. Ferroelectrics, 1996, 185, 135-138.	0.3	46
72	Synthesis, Structures, Magnetic Properties, and Phase Transition of Manganese(II) Divanadate: Mn2V2O7. Journal of Solid State Chemistry, 1996, 121, 214-224.	1.4	64

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73	The Synthesis, Structural Analysis and Magnetic Properties of a New Mixed Metal Ferrite Ba₃Fe₂₄Ti₇O₅₃. Chemische Berichte, 1996, 129, 1441-1445.	0.2	3
74	A new manganese ortho-arsenate. The synthesis, structure and magnetic properties of Ba2Mn(AsO4)2. Polyhedron, 1996, 15, 1235-1239.	1.0	5
75	A new mixed metal titanate: The synthesis and characterization of Ba2Fe2Ti4O13. Polyhedron, 1996, 15, 2567-2571.	1.0	14
76	Synthesis and Structure of NaMn3(PO4)(HPO4)2, an Unoxidized Variant of the Alluaudite Structure Type. Journal of Solid State Chemistry, 1995, 115, 240-246.	1.4	41
77	On CuCrP2S6: Copper Disorder, Stacking Distortions, and Magnetic Ordering. Journal of Solid State Chemistry, 1995, 116, 208-210.	1.4	37
78	New manganese pyrophosphates: The syntheses, crystallographic characterizations and magnetic properties of BaMnP2O7 and CaMnP2O7. Polyhedron, 1995, 14, 3473-3480.	1.0	25
79	Quasi-1D antiferromagnets with S = 1 and : The isostructural compounds AgVP2S6 and AgCrP2S6. Physica B: Condensed Matter, 1995, 213-214, 170-172.	1.3	11
80	A new family of 2D antiferromagnets: the layered phosphonates MII (RPO3) Â· H2O; M î—» Mn, Fe, Co, Ni; R = alkyl, phenyl. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1719-1720.	1.0	29
81	Finite segments in quasi-1D Heisenberg antiferromagnets: comparison of the isostructural systems AgVP2S6 (S = 1) and AgCrP2S6 (S =). Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1677-1678.	1.0	7
82	A New Mixed-Metal Titanate. The Synthesis and Characterization of Ba2NiTi5O13. Chemistry of Materials, 1995, 7, 2168-2170.	3.2	6
83	Cu4(AsO4)2(O): A New Copper Arsenate with Unusual Low Temperature Magnetic Properties. Inorganic Chemistry, 1995, 34, 5397-5398.	1.9	25
84	Room-temperature crystal structure of the layered phase CuIInIIIP2S6. Journal of Alloys and Compounds, 1995, 218, 157-164.	2.8	125
85	Synthesis, Structure and Magnetic Properties of Some New Metal (II) Phosphonates: Layered Fe(C₂H₅PO₃) H₂O and Î±-Cu(C₂H₅PO₃), Tubular Î²-Cu(CH₃PO₃). Materials Science Forum, 1994, 152-153, 365-370.	0.3	0
86	Paraelectric-Ferroelectric Transition in the Lamellar Thiophosphate CuInP2S6. Chemistry of Materials, 1994, 6, 1575-1580.	3.2	120
87	Novel structural arrangement for divalent metal phosphonates: synthesis of tert-butylphosphonates and structure of Co[(CH3)3CPO3]Â·H2O. Journal of Materials Chemistry, 1994, 4, 1319-1323.	6.7	12
88	Preparation, Structure, and Magnetic Properties of Copper(II) Phosphonates. .beta.-CuII(CH3PO3), an Original Three-Dimensional Structure with a Channel-Type Arrangement. Inorganic Chemistry, 1994, 33, 4885-4890.	1.9	167
89	Synthesis, Structure and Magnetic Properties of Some New Metal(II) Phosphonates: Layered Fe(C2H5PO3).H2O, Î±-Cu(C2H5PO3) and Co(t-C4H9PO3).H2O, Tubular Î²-Cu(CH3PO3). Materials Research Society Symposia Proceedings, 1994, 346, 967.	0.1	0
90	Finite segments, â€œfree spinsâ€•and random exchange in spin S=1 quasi one-dimensional antiferromagnets. Solid State Communications, 1993, 85, 597-599.	0.9	6

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91	BaCo2Si2O7: A new one-dimensional antiferromagnet based on chains of oxide bridged CoO4 tetrahedra. Polyhedron, 1993, 12, 2075-2077.	1.0	18
92	Room temperature synthesis study of highly disordered a-Ni2P2S6. Journal of Non-Crystalline Solids, 1993, 160, 1-17.	1.5	11
93	Low-temperature neutron powder diffraction study of copper chromium thiophosphate (CuCrP2S6): observation of an ordered, antipolar copper sublattice. Chemistry of Materials, 1993, 5, 758-760.	3.2	41
94	Synthesis, structure, and magnetic properties of a new lamellar iron phosphonate, FeII(C2H5PO3).H2O. Chemistry of Materials, 1993, 5, 583-587.	3.2	93
95	Synthesis and structure of chromium antimony triselenide (CrSbSe3): a pseudo-one-dimensional ferromagnet. Chemistry of Materials, 1993, 5, 237-240.	3.2	32
96	Preparation and structure of copper(II) ethylphosphonate. Structural transition between its hydrated and dehydrated forms. Inorganic Chemistry, 1993, 32, 4617-4620.	1.9	60
97	One-Dimensional Heisenberg Antiferromagnet with Spin S = 3/2. Experiments on AgCrP ₂ S ₆. Europhysics Letters, 1993, 21, 623-628.	0.7	16
98	Magnetic correlations in the S=1 quasi-one-dimensional Heisenberg antiferromagnet AgVP2S6. Physica B: Condensed Matter, 1992, 180-181, 197-198.	1.3	9
99	Static and dynamic properties of the quasi-1D Heisenberg antiferromagnets AgVP2S6 (S=1) and AgCrP2S6 (S = 3/2). Journal of Magnetism and Magnetic Materials, 1992, 104-107, 797-798.	1.0	10
100	Dynamic structure factor [S(Q,Ï‰)] of theS=1 quasi-one-dimensional Heisenberg antiferromagnet: Neutron-scattering study onAgVP2S6. Physical Review Letters, 1991, 67, 497-500.	2.9	70
101	Powder and single crystal susceptibility of the quasi-1D Heisenberg antiferromagnetic chain compounds AgVP2S6 (S = 1) and AgCrP2S6 (). Journal of Magnetism and Magnetic Materials, 1990, 84, 95-101.	1.0	10