

# Alain Bulou

## List of Publications by Year in descending order

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53  
papers

896  
citations

430874

18  
h-index

501196

28  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1121  
citing authors

#	ARTICLE	IF	CITATIONS
1	AF fluoropolymer for optical use: spectroscopic and surface energy studies; comparison with other fluoropolymers. <i>European Polymer Journal</i> , 1998, 34, 1457-1465.	5.4	58
2	Optical temperature sensing using green emissions of Er <sup>3+</sup> doped fluoro-tellurite glass. <i>Sensors and Actuators A: Physical</i> , 2017, 261, 235-242.	4.1	58
3	A theoretical study on the molecular structure and vibrational (FT-IR and Raman) spectra of new organic-inorganic compound [N(C <sub>3</sub> H <sub>7</sub> ) <sub>4</sub> ] <sub>2</sub> SnCl <sub>6</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 117, 225-233.	3.9	55
4	Color Control in Coaxial Two-Luminophore Nanowires. <i>ACS Nano</i> , 2013, 7, 2977-2987.	14.6	53
5	Crystal Structure and Polarized Raman Spectra of Ca <sub>6</sub> Sm <sub>2</sub> Na <sub>2</sub> (PO <sub>4</sub> ) <sub>6</sub> F <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 2000, 149, 308-313.	2.9	40
6	Photoinduced defects in the bromide-bridged platinum linear chain [Pt(en) <sub>2</sub> ][Pt(en) <sub>2</sub> Br <sub>2</sub> ](ClO <sub>4</sub> ) <sub>4</sub> (with Tj ETQq0 0.0 rgBT / Overlock 10	3.2	38
7	Infrared, polarized Raman and ab initio calculations of the vibrational spectra of [N(C <sub>3</sub> H <sub>7</sub> ) <sub>4</sub> ] <sub>2</sub> Cu <sub>2</sub> Cl <sub>6</sub> crystals. <i>Vibrational Spectroscopy</i> , 2013, 64, 10-20.	2.2	36
8	Laser generation and detection of longitudinal and shear acoustic waves in a diamond anvil cell. <i>Applied Physics Letters</i> , 2008, 93, 181905.	3.3	34
9	Revealing sub- $\frac{1}{4}$ $\mu$ m and $\frac{1}{4}$ $\mu$ m-scale textures in H <sub>2</sub> O ice at megabar pressures by time-domain Brillouin scattering. <i>Scientific Reports</i> , 2015, 5, 9352.	3.3	33
10	Structural characterization, vibrational spectroscopy accomplished with DFT calculation, thermal and dielectric behaviors in a new organic-inorganic tetrapropylammonium aquapentachlorostannate dihydrate compound. <i>Journal of Alloys and Compounds</i> , 2016, 679, 302-315.	5.5	30
11	Structure and characterization of the phase transition of the new organic-inorganic hybrid compound [C <sub>8</sub> H <sub>10</sub> NO] <sub>2</sub> [ZnCl <sub>4</sub> ]. <i>Polyhedron</i> , 2015, 85, 41-47.	2.2	28
12	Crystal field and free-ion analysis for Eu <sup>3+</sup> ion in LaOF crystal. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 285-291.	4.0	25
13	Vibrational study and crystal structure refinement of BaHPO <sub>4</sub> . <i>Solid State Sciences</i> , 2004, 6, 197-204.	3.2	22
14	Longitudinal sound velocities, elastic anisotropy, and phase transition of high-pressure cubic $\text{H}_2\text{O}$ ice to 82 GPa. <i>Physical Review B</i> , 2017, 96,	3.2	22
15	Synthesis, crystal structure and high temperature phase transition in the new organic-inorganic hybrid [N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> ] <sub>3</sub> Zn <sub>2</sub> Cl <sub>7</sub> H <sub>2</sub> O crystals. <i>Journal of Molecular Structure</i> , 2015, 1089, 153-160.	3.6	21
16	Controlled modification of octadecyltrichlorosilane self-assembled monolayer by CO <sub>2</sub> plasma. <i>Thin Solid Films</i> , 2006, 496, 612-618.	1.8	20
17	Electronic active defects and local order in doped ZnO ceramics inferred from EPR and <sup>27</sup> Al NMR investigations. <i>Journal of the European Ceramic Society</i> , 2019, 39, 3070-3076.	5.7	20
18	Investigation of Mixed Divalent Cation Monophosphates: Synthesis, Crystal Structure, and Vibrational Study of CdBa <sub>2</sub> (HPO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 2001, 161, 97-105.	2.9	19

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19	Picosecond laser ultrasonics for imaging of transparent polycrystalline materials compressed to megabar pressures. <i>Ultrasonics</i> , 2016, 69, 259-267.	3.9	19
20	Influence of hydrostatic pressure and of interatomic distance upon the energy levels scheme of Eu <sup>3+</sup> in reoBr (RE = La, Gd or Y). <i>Solid State Communications</i> , 1995, 94, 309-315.	1.9	17
21	Partial substitution of Mo <sup>6+</sup> by S <sup>6+</sup> in the fast oxide ion conductor La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> : Synthesis, structure and sulfur depletion. <i>Journal of Solid State Chemistry</i> , 2012, 190, 246-256.	2.9	17
22	Universal scaling in sports ranking. <i>New Journal of Physics</i> , 2012, 14, 093038.	2.9	15
23	Pressure effect on the Raman spectra of RbAlF <sub>4</sub> and KAlF <sub>4</sub> : A pressure induced martensitic phase transition in KAlF <sub>4</sub> . <i>Phase Transitions</i> , 1995, 53, 1-13.	1.3	14
24	Reinvestigation of the Total Li <sup>+</sup> /H <sup>+</sup> Ion Exchange on the Garnet-Type Li <sub>5</sub> La <sub>3</sub> Nb <sub>2</sub> O <sub>12</sub> . <i>Inorganic Chemistry</i> , 2014, 53, 931-934.	4.0	14
25	Raman scattering investigation of the high temperature phase transition in [N(C <sub>3</sub> H <sub>7</sub> ) <sub>4</sub> ] <sub>2</sub> SnCl <sub>6</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 547-552.	3.9	14
26	An ab initio molecular dynamics study of ionic conductivity in hexagonal lithium lanthanum titanate oxide La <sub>0.5</sub> Li <sub>0.5</sub> TiO <sub>3</sub> . <i>Ionics</i> , 2012, 18, 371-377.	2.4	13
27	Synthesis, structural characterization and spectroscopic studies of bis tetramethylammonium hexabromostannate [N(CH <sub>3</sub> ) <sub>4</sub> ] <sub>2</sub> SnBr <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , 2019, 772, 546-556.	5.5	13
28	Crystal Structure, Infrared, and Polarized Raman Spectra of K <sub>3</sub> Sm(PO <sub>4</sub> ) <sub>2</sub> . <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 1545-1550.	2.0	12
29	Quantification of the Dissolved Inorganic Carbon Species and of the pH of Alkaline Solutions Exposed to CO <sub>2</sub> under Pressure: A Novel Approach by Raman Scattering. <i>Analytical Chemistry</i> , 2014, 86, 9895-9900.	6.5	12
30	Phase Transitions in the Ruddlesden-Popper Phase Li <sub>2</sub> CaTa <sub>2</sub> O <sub>7</sub> : X-ray and Neutron Powder Thermodiffraction, TEM, Raman, and SHG Experiments. <i>Inorganic Chemistry</i> , 2016, 55, 2309-2323.	4.0	12
31	Structure cristalline et spectres Raman polarises de Na <sub>1.5</sub> Sm <sub>8.5</sub> (SiO <sub>4</sub> ) <sub>6</sub> FO Crystal structure and polarized Raman spectra of Na <sub>1.5</sub> Sm <sub>8.5</sub> (SiO <sub>4</sub> ) <sub>6</sub> FO. <i>Annales De Chimie: Science Des Materiaux</i> , 2002, 27, 17-26.	0.4	11
32	Supramolecular architecture based on [Fe(CN) <sub>6</sub> ] <sup>3-</sup> metallotectons and melaminium synthons. <i>Journal of Molecular Structure</i> , 2017, 1146, 409-416.	3.6	11
33	Lattice Dynamics of <sup>125</sup> -SnWO <sub>4</sub> : Experimental and Ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5301-5313.	3.1	10
34	Directivity patterns and pulse profiles of ultrasound emitted by laser action on interface between transparent and opaque solids: Analytical theory. <i>Journal of Applied Physics</i> , 2014, 115, 044902.	2.5	10
35	Elastic anisotropy and single-crystal moduli of solid argon up to 64 GPa from time-domain Brillouin scattering. <i>Physical Review B</i> , 2019, 99, .	3.2	10
36	Structural characterization, thermal, ac conductivity and dielectric properties of (C <sub>7</sub> H <sub>12</sub> N <sub>2</sub> ) <sub>2</sub> [SnCl <sub>6</sub> ] <sub>2</sub> ·1.5H <sub>2</sub> O. <i>Phase Transitions</i> , 2016, 89, 523-542.		

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37	The decomposition of the layered double hydroxides of Co and Al: Phase segregation of a new single phase spinel oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 141, 80-87.	3.9	7
38	<i>In situ</i> imaging of the dynamics of photo-induced structural phase transition at high pressures by picosecond acoustic interferometry. <i>New Journal of Physics</i> , 2017, 19, 053026.	2.9	7
39	3D characterization of individual grains of coexisting high-pressure H <sub>2</sub> O ice phases by time-domain Brillouin scattering. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	7
40	Crystal structure and spectroscopic studies of LiNH <sub>4</sub> (H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> – A new solid acid in the LiH <sub>2</sub> PO <sub>4</sub> –NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> system. <i>Journal of Solid State Chemistry</i> , 2015, 230, 272-278.	2.9	4
41	A theoretical study on the molecular structure of new organic–inorganic bis-(4-acetylanilinium) tetrachloridozincate compound. <i>Indian Journal of Physics</i> , 2016, 90, 381-389.	1.8	4
42	Supramolecular and heterometallic architectures based on [Fe(CN) <sub>6</sub> ] <sup>3-</sup> metallotectons and diverse organic cations: Crystal structure, Hirshfeld surface analysis, spectroscopic and thermal properties. <i>Inorganica Chimica Acta</i> , 2019, 486, 36-47.	2.4	4
43	Origin of temperature independent piezoelectric coefficient in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -BaTiO <sub>3</sub> -PbTiO <sub>3</sub> ceramics. <i>Journal of Applied Physics</i> , 2013, 114, 074105.	2.5	3
44	Raman scattering study of temperature induced phase transition in [C <sub>8</sub> H <sub>10</sub> NO] <sub>2</sub> [ZnCl <sub>4</sub> ]. <i>AIP Advances</i> , 2015, 5, 087127.	1.3	3
45	Evaluation of the Structural Phase Transition in Multiferroic (Bi <sub>1-x</sub> Pr <sub>x</sub> )(Fe <sub>0.95</sub> Mn <sub>0.05</sub> )O <sub>3</sub> Thin Films by A Multi-Technique Approach Including Picosecond Laser Ultrasonics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 736.	2.5	3
46	Synthesis, crystal structure, and vibrational study of K <sub>2</sub> Cu(HPO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O: A new metal hydrogenphosphate compound. <i>Journal of Molecular Structure</i> , 2015, 1099, 181-188.	3.6	2
47	Lattice dynamics in MX chains; localized modes associated with polaronic and bipolaronic defects in PtX CDW systems. <i>Synthetic Metals</i> , 1991, 43, 3663-3666.	3.9	1
48	Two-Dimensional Orientational Order-Disorder Phase Transition in NH <sub>4</sub> AlF <sub>4</sub> . <i>Ferroelectrics</i> , 2002, 270, 387-392.	0.6	1
49	Look-alike nanocorals. <i>Materials Today</i> , 2015, 18, 51-52.	14.2	1
50	Theoretical and experimental studies of Raman spectroscopy for the characterization of order-disorder transition of 1-adamantane-methanol compound. <i>Vibrational Spectroscopy</i> , 2021, 117, 103316.	2.2	1
51	Synthesis, structural characterization, and spectroscopic studies of bis-tetraethylammonium hexabromostannate [N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> ] <sub>2</sub> SnBr <sub>6</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2022, , 110841.	4.0	1
52	Raman scattering study of phase transitions in CsScF <sub>4</sub> crystal. , 2000, 4069, 53.		0
53	Vibrational Study and Crystal Structure Refinement of BaHPO <sub>4</sub> .. <i>ChemInform</i> , 2004, 35, no.	0.0	0