

Bertrand Menaert

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Widely and continuously tunable optical parametric oscillator based on a cylindrical periodically poled KTiOPO ₄ crystal. Optics Letters, 2001, 26, 1882.	3.3	47
2	Phase-matching directions and refined Sellmeier equations of the monoclinic acentric crystal BaGa ₄ Se ₇ . Optics Letters, 2016, 41, 2731.	3.3	41
3	Phase-matching measurements and Sellmeier equations over the complete transparency range of KTiOAsO ₄ , RbTiOAsO ₄ , and CsTiOAsO ₄ . Journal of the Optical Society of America B: Optical Physics, 2000, 17, 775.	2.1	37
4	Phase-matching directions, refined Sellmeier equations, and second-order nonlinear coefficient of the infrared Langatate crystal La ₃ Ga ₅₅ Ta ₀₅ O ₁₄ . Optics Letters, 2014, 39, 4033.	3.3	32
5	Widely tunable optical parametric oscillator in a 5Åmm thick 5% MgO:PPLN partial cylinder. Optics Letters, 2013, 38, 860.	3.3	27
6	Absorption and fluorescence anisotropies of monoclinic crystals : the case of Nd:YCOB. Optics Express, 2008, 16, 7997.	3.4	26
7	Continuous tuning of a microlaser-pumped optical parametric generator by use of a cylindrical periodically poled lithium niobate crystal. Optics Letters, 2003, 28, 1028.	3.3	24
8	Growth and thermodynamic characterization of pure and Er-doped KPb ₂ Cl ₅ . Journal of Crystal Growth, 2006, 286, 324-333.	1.5	22
9	Characterizations of piezoelectric GaPO ₄ single crystals grown by the flux method. Journal of Crystal Growth, 2008, 310, 1455-1459.	1.5	19
10	Phase-matching properties and refined Sellmeier equations of the new nonlinear infrared crystal CdSiP ₂ . Optics Letters, 2011, 36, 1800.	3.3	19
11	Top Seeded Solution Growth and Structural Characterizations of Î±-Quartz-like Structure GeO ₂ Single Crystal. Crystal Growth and Design, 2013, 13, 4220-4225.	3.0	19
12	Vibrational Origin of the Thermal Stability in the Highly Distorted Î±-Quartz-Type Material GeO ₂ : An Experimental and Theoretical Study. Inorganic Chemistry, 2013, 52, 7271-7279.	4.0	19
13	Angular quasi-phase-matching experiments and determination of accurate Sellmeier equations for 5%MgO:PPLN. Optics Letters, 2009, 34, 2578.	3.3	18
14	High-temperature Elastic Moduli of Flux-grown Î±-GeO ₂ Single Crystal. ChemPhysChem, 2014, 15, 118-125.	2.1	18
15	Singular topology of optical absorption in biaxial crystals. Optics Express, 2009, 17, 19868.	3.4	13
16	Brillouin Spectroscopy, Calculated Elastic and Bond Properties of GaAsO ₄ . Inorganic Chemistry, 2010, 49, 9470-9478.	4.0	13
17	High temperature piezoelectric properties of flux-grown Î±-GeO ₂ single crystal. Journal of Applied Physics, 2019, 126, .	2.5	13
18	Template-growth of periodically domain-structured KTiOPO ₄ [Invited]. Optical Materials Express, 2011, 1, 185.	3.0	10

#	ARTICLE	IF	CITATIONS
19	Intrinsic ionic screening of the ferroelectric polarization of KTP revealed by second-harmonic generation microscopy. <i>Optical Materials Express</i> , 2016, 6, 137.	3.0	9
20	Thermal stability of ferroelectric domain gratings in Rb-doped KTP. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	8
21	Bulk cylinders and spheres: from shaping to the use for linear and nonlinear optics. <i>Optical Materials Express</i> , 2017, 7, 3017.	3.0	8
22	Refractive indices determination of a small-size nonlinear biaxial crystal by use of double-refraction measurements with a laser beam. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 852.	2.1	7
23	Optical properties in the infrared range of the birefringent $\hat{1}\pm$ -GeO ₂ single crystal. <i>Materials Research Bulletin</i> , 2020, 129, 110881.	5.2	7
24	Dielectric frame, Sellmeier equations, and phase-matching properties of the monoclinic acentric crystal GdCa ₄ O(BO ₃) ₃ . <i>Optics Letters</i> , 2016, 41, 5290.	3.3	6
25	Spheres and cylinders in parametric nonlinear optics. <i>Optical Materials</i> , 2004, 26, 459-464.	3.6	4
26	Rotation of the absorption frame as a function of the electronic transition in the Nd ³⁺ :YCa ₄ O(BO ₃) ₃ monoclinic crystal. <i>Optics Express</i> , 2010, 18, 19169.	3.4	4
27	Hemisphere m-line spectroscopy and its application to birefringent KTiOPO ₄ planar waveguides. <i>Optics Communications</i> , 2007, 270, 229-232.	2.1	3
28	Stabilization of domain structures in Rb-doped KTiOPO ₄ for high-temperature processes. <i>Applied Physics Letters</i> , 2019, 114, 052904.	3.3	3
29	Bulk PPKTP by crystal growth from high temperature solution. <i>Journal of Crystal Growth</i> , 2012, 360, 52-55.	1.5	2
30	Stability of the polar faces in KTiOPO ₄ crystalline layers grown by liquid phase epitaxy. <i>CrystEngComm</i> , 2018, 20, 7502-7506.	2.6	2
31	State of the art of the sphere method, a unique characterization technique for non-linear crystals. <i>Research on Chemical Intermediates</i> , 2008, 34, 217-228.	2.7	1
32	Linear and nonlinear optical properties of the piezoelectric crystal $\hat{1}\pm$ -GeO ₂ . <i>Optical Materials Express</i> , 2021, 11, 3520.	3.0	1
33	Phase-Matching Properties of the Monoclinic Crystal BaGa ₄ Se ₇ . , 2016, , .		0
34	Shaping and use of crystals as spheres and cylinders for linear and nonlinear optics. , 2017, , .		0