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Fabrication and Optical Properties of High-Performance Polycrystalline Nd:YAG Ceramics for Solid-State Lasers

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#	Paper	IF	Citations
1071	Synthesis of Nd ³⁺ ,Cr ³⁺ -codoped YAG Ceramics for High-Efficiency Solid-State Lasers. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2545-2547	3.8	127
1070	Effects of Neodymium Concentration on Optical Characteristics of Polycrystalline Nd:YAG Laser Materials. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1921-1926	3.8	113
1069	Microstructure and Optical Properties of Hot Isostatically Pressed Nd:YAG Ceramics. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1927-1933	3.8	51
1068	Transparent Cr ⁴⁺ -Doped YAG Ceramics for Tunable Lasers. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 507-509	3.8	50
1067	Luminescence properties of Ce-activated YAG optical ceramic scintillator materials. 1997 , 75, 193-203		157
1066	Host-associated luminescence from YAG optical ceramics under gamma and optical excitation. 1998 , 78, 121-134		39
1065	Continuous-Wave Diode-Pumped Nd/sup 3+/: YAG Ceramics Laser.		
1064	Nd/sup 3+/:YAG ceramics for LD pumped laser.		
1063	Preparation of Transparent YAG Ceramic and Its Application to Window Material of Infrared Spectrophotometer.. 2000 , 2000, 437-440		5
1062	Temperature dependence of host-associated luminescence from YAG transparent ceramic material. 2000 , 90, 89-99		27
1061	Melt extraction processing of structural Y ₂ O ₃ Al ₂ O ₃ fibers. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 1091-1098	6	22
1060	Observation of stimulated Raman scattering in Y ₃ Al ₅ O ₁₂ single crystals and nanocrystalline ceramics and in these materials activated with laser ions Nd ³⁺ and Yb ³⁺ . 2000 , 72, 499-502		21
1059	Optical properties and laser characteristics of highly Nd ³⁺ -doped Y ₃ Al ₅ O ₁₂ ceramics. 2000 , 77, 939		137
1058	Optical Characteristics of Al ₂ O ₃ Ceramics Doped with Cr at High Concentrations Prepared by Extrusion Molding Process. 2000 , 39, 2748-2749		8
1057	Well-sinterable Y ₃ Al ₅ O ₁₂ Powder from Carbonate Precursor. 2000 , 15, 1514-1523		58
1056	High-Power Nd:Y ₃ Al ₅ O ₁₂ Ceramic Laser. 2000 , 39, L1048-L1050		84
1055	Temperature dependence of Ce-emission kinetics in YAG:Ce optical ceramic. <i>Journal of Alloys and Compounds</i> , 2000 , 300-301, 495-499	5.7	30

1054	Optical properties and laser performances of highly neodymium-doped YAG ceramics. 2000,	
1053	Synthesis of a NdAlO ₃ /Al ₂ O ₃ Ceramic-Ceramic Composite by Single-Source Precursor CVD 2000, 12, 271-274	37
1052	Highly efficient 2% Nd:yttrium aluminum garnet ceramic laser. 2000, 77, 3707-3709	173
1051	Characterization of yttrium aluminate garnet precursors synthesized via precipitation using ammonium bicarbonate as the precipitant. 2000, 15, 2375-2386	20
1050	Laser emission in highly doped Nd:YAG crystals under (4)F(5/2) and (4)F(3/2) pumping. 2001, 26, 1678-80	54
1049	Thermal conductivity of a self-frequency-doubling laser crystal measured by use of optical methods. 2001, 40, 1372-7	3
1048	The effect of Nd concentration on the spectroscopic and emission decay properties of highly doped Nd:YAG ceramics. 2001, 64,	88
1047	Single-Step Preparation of Oxide-Oxide Nanocomposites: Chemical Vapor Synthesis of LnAlO ₃ /Al ₂ O ₃ (Ln = Pr, Nd) Thin Films. 2001, 13, 4041-4052	45
1046	Laser emission under resonant pump in the emitting level of concentrated Nd:YAG ceramics. 2001, 79, 590-592	84
1045	Thermal Birefringence in Nd:YAG Ceramics. 2001, ME14	0
1044	Synthesis of Pr Heavily-Doped, Transparent YAG Ceramics.. 2001, 109, 640-642	9
1043	Spectroscopy and laser emission under hot band resonant pump in highly doped Nd:YAG ceramics. 2001, 195, 225-232	30
1042	Effect of Al ₂ O ₃ matrix on the optical properties of NdAlO ₃ in NdAlO ₃ /Al ₂ O ₃ ceramic-ceramic composite. 2001, 44, 2105-2109	14
1041	High power polycrystalline Nd:YAG ceramic laser.	
1040	Highly Efficient Nd:Y ₃ Al ₅ O ₁₂ Ceramic Laser. 2001, 40, L552-L554	35
1039	Spectroscopic properties of highly doped Nd:YAG ceramics. 2001,	
1038	High power Nd:YAG ceramic laser. 2001,	1
1037	. 2001,	

1036	Diode-pumped Yb:Y2O3 ceramic laser. 2002 ,		1
1035	Spectroscopic Properties of Lu2O3/Eu3+ Nanocrystalline Powders and Sintered Ceramics. 2002 , 106, 3805-3812		101
1034	Thermal-birefringence-induced depolarization in Nd:YAG ceramics. 2002 , 27, 234-6		74
1033	36-W diode-pumped continuous-wave 1319-nm Nd:YAG ceramic laser. 2002 , 27, 1120-2		71
1032	High-resolution spectroscopy and emission decay in concentrated Nd:YAG ceramics. 2002 , 19, 360		28
1031	Sol-gel synthesis and photoluminescent properties of cerium-ion doped yttrium aluminium garnet powders. 2002 , 12, 2525-2530		105
1030	Structural and Optical Properties of NdAlO3 Nanocrystals Embedded in an Al2O3 Matrix. 2002 , 14, 568-582		64
1029	High power lasers based on ceramic materials.		1
1028	Efficient laser emission in concentrated Nd laser materials under pumping into the emitting level. 2002 , 38, 240-245		26
1027	Sintering properties of urea-derived Lu2O3-based phosphors. <i>Journal of Alloys and Compounds</i> , 2002 , 341, 391-394	5-7	31
1026	Synthesis and optical properties of Nd3+-doped Y3Al5O12 nanoceramics. <i>Journal of Alloys and Compounds</i> , 2002 , 341, 183-186	5-7	103
1025	Neodymium doped yttrium aluminum garnet (Y3Al5O12) nanocrystalline ceramics—a new generation of solid state laser and optical materials. <i>Journal of Alloys and Compounds</i> , 2002 , 341, 220-225	5-7	421
1024	1064 nm laser emission of highly doped Nd: Yttrium aluminum garnet under 885 nm diode laser pumping. 2002 , 80, 4309-4311		66
1023	Polycrystalline Nd:YAG ceramics lasers. <i>Optical Materials</i> , 2002 , 19, 183-187	3-3	169
1022	Transparent polycrystalline neodymium doped YAG: synthesis parameters, laser efficiency. <i>Optical Materials</i> , 2003 , 24, 345-351	3-3	48
1021	Efficiency enhancement and power scaling of Nd lasers. <i>Optical Materials</i> , 2003 , 24, 353-368	3-3	21
1020	New data on the physical properties of Y3Al5O12-based nanocrystalline laser ceramics. 2003 , 48, 515-519		39
1019	Hot emission in Nd3+/Yb3+:YAG nanocrystalline ceramics. 2003 , 102-103, 438-444		13

1018	A Combinatorial Chemistry Study of YAG Nucleation. 2003 , 804, 193		
1017	Fabrication of transparent Sc ₂ O ₃ ceramics with powders thermally pyrolyzed from sulfate. 2003 , 18, 1816-1822		26
1016	Basic enhancement of the overall optical efficiency of intracavity frequency-doubling devices for the 1 μ m continuous-wave Nd:Y ₃ Al ₅ O ₁₂ laser emission. 2003 , 83, 3653-3655		21
1015	Diode-pumped Yb:Y ₂ O ₃ ceramic laser. 2003 , 82, 2556-2558		69
1014	Optical technologies for the future of ground-based detectors. 2003 , 20, S117-S125		3
1013	The spectroscopic properties and laser characteristics of polycrystalline Nd: Y ₃ Sc _x Al _(5-x) O ₁₂ laser media. 2003 , 444		1
1012	Novel Electro-Optic Ceramic Materials for Microchip and High Power Lasers. 2003 , 782, 1		6
1011	Materiais cerâmicos ferroelétricos como hospedeiros para lasers ativos: características estruturais, microestruturais e espectroscópicas. 2004 , 50, 368-377		2
1010	Structural and spectroscopic properties of rare-earth (Nd ³⁺ , Er ³⁺ , and Yb ³⁺) doped transparent lead lanthanum zirconate titanate ceramics. <i>Journal of Applied Physics</i> , 2004 , 95, 2135-2140	2.5	50
1009	Ytterbium Cation Diffusion in Yttrium Aluminum Garnet (YAG) – Implications for Creep Mechanisms. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2356-2360	3.8	48
1008	Nonequilibrium acoustic phonons in Y ₃ Al ₅ O ₁₂ -based nanocrystalline ceramics. 2004 , 79, 342-345		15
1007	Upconversion luminescence of Er ³⁺ in highly transparent YAG ceramics. 2004 , 132, 103-106		46
1006	110 W ceramic Nd ³⁺ : Y ₃ Al ₅ O ₁₂ laser. 2004 , 79, 25-28		101
1005	Observation of nonlinear lasing (B)-effects in highly transparent nanocrystalline Y ₂ O ₃ and Y ₃ Al ₃ O ₁₂ ceramics. 2004 , 1, 6-11		21
1004	Nonlinear refractive index of ceramic laser media and perspectives of their usage in a high-power laser-driver. 2004 , 1, 500-506		36
1003	Phase-selective cathodoluminescence spectroscopy of Er:YAG glass-ceramics. 2004 , 132, 19-23		15
1002	Synthesis of nanocrystalline yttria powder and fabrication of transparent YAG ceramics. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 2681-2688	6	147
1001	Single crystal and transparent ceramic Nd-doped oxide laser materials: a comparative spectroscopic investigation. <i>Journal of Alloys and Compounds</i> , 2004 , 380, 61-70	5.7	55

1000	Precipitation synthesis and sintering of yttria nanopowders. <i>Materials Letters</i> , 2004 , 58, 2137-2142	3.3	95
999	Synthesis of monodisperse and spherical YAG nanopowder by a mixed solvothermal method. <i>Journal of Alloys and Compounds</i> , 2004 , 372, 300-303	5.7	71
998	Oscillation spectra and dynamic effects in a highly-doped microchip Nd:YAG ceramic laser. 2004 , 12, 2293-302	30	
997	Passively Q-switched Yb:Y(2)O(3) ceramic laser with a GaAs output coupler. 2004 , 12, 3560-6		31
996	Passively Q-switched ceramic Nd ³⁺ :YAG/Cr ⁴⁺ :YAG lasers. 2004 , 43, 2944-7		34
995	Thermally induced birefringence in Faraday devices made from terbium gallium garnet-polycrystalline ceramics. 2004 , 43, 6030-9		52
994	Diode-end-pumped 4.2-W continuous-wave Yb:Y ₂ O ₃ ceramic laser. 2004 , 29, 1212-4		53
993	Spectroscopic and stimulated emission Characteristics of Nd ³⁺ in transparent YAG ceramics. 2004 , 40, 747-758		78
992	Phase Selection in Undercooled Y ₃ Al ₅ O ₁₂ Melt. 2004 , 45, 2723-2727		8
991	Optical quality and laser performance of polycrystal and single crystal Nd:YAG by sintering method. 2005 ,		
990	Solvothermal synthesis and luminescent properties of YAG:Tb nano-sized phosphors. 2005 , 66, 201-205		38
989	Novel synthesis of YAG by solvothermal method. 2005 , 275, e1913-e1917		37
988	5.5 W CW Yb ³⁺ :Y ₂ O ₃ ceramic laser pumped with 970 nm laser diode. 2005 , 246, 465-469		10
987	Self-Induced Instabilities in Nd:Y ₃ Al ₅ O ₁₂ Ceramic Lasers. 2005 , 44, L1168-L1170		5
986	Scattering in Polycrystalline Nd:YAG Lasers. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2194-2196.8		28
985	Microhardness and fracture toughness of Y ₂ O ₃ -and Y ₃ Al ₅ O ₁₂ -based nanocrystalline laser ceramics. 2005 , 50, 869-873		75
984	Optical Scattering Centers in Polycrystalline Nd:YAG Laser. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1517-1522	3.8	145
983	Fabrication of Transparent, Sintered Sc ₂ O ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 817-821	3.8	65

982	Preparation and characterization of Y3Al5O12 (YAG) nano-powder by co-precipitation method. 2005 , 40, 1279-1285		51
981	Ceramic Nd:YAG laser at 946 nm. 2005 , 2, 383-386		34
980	Lu2O3:Yb3+ ceramics a novel gain material for high-power solid-state lasers. 2005 , 202, R1-R3		71
979	Liquid-cooled ceramic Nd:YAG split-disk amplifier for advanced high-average-power laser.		0
978	Sol-gel based YAG : Tb3+or Eu3+-phosphors for application in lighting sources. 2005 , 38, 3251-3260		62
977	Development of cw-diode pumped amplifier for over 1-kW-average-power solid-state laser system. 2005 ,		
976	Nd3+-doped lead lanthanum zirconate titanate transparent ferroelectric ceramic as a laser material: Energy transfer and stimulated emission. 2005 , 86, 152905		18
975	Study on the Diode-pumped Yb:Y2O3Ceramic Laser.		
974	45W continuous-wave output from a highly Nd doped YAG ceramic laser with a bounce amplifier geometry.		
973	Flame synthesis of calcium-, strontium-, barium fluoride nanoparticles and sodium chloride. 2005 , 1767-9		91
972	9.2-W diode-pumped Yb:Y2O3 ceramic laser. 2005 , 86, 161116		77
971	Spectral analysis and energy-level structure of Er3+(4f11) in polycrystalline ceramic garnet Y3Al5O12. <i>Journal of Applied Physics</i> , 2005 , 97, 063519	2.5	29
970	Nd:YAG ceramic laser obtained high slope-efficiency of 62% in high power applications. 2005 , 13, 8725-9		45
969	Flashlamp-pumped Nd: YAG ceramic laser.		
968	Experimental 511 W Composite Nd:YAG Ceramic Laser. 2005 , 22, 2565-2567		8
967	Experimental study of Ti:sapphire laser end-pumped Nd:YAG ceramic laser Q-switched by Cr4+:YAG saturable absorber. 2006 , 8, 550-554		6
966	Refine Yttria Powder and Fabrication of Transparent Yb,Cr:YAG Ceramics. 2006 , 15-17, 246-250		1
965	PROGRESS IN CERAMIC LASERS. 2006 , 36, 397-429		240

964	Nd ³⁺ :Y ₃ Al ₅ O ₁₂ laser ceramics: Flashlamp pumped laser operation with a UV cut filter. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 195-199	5.7	35
963	Effect of process parameters on the synthesis of YAG nano-crystallites in supercritical solvent. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 298-302	5.7	6
962	Fabrication of Cr ⁴⁺ ,Nd ³⁺ :YAG transparent ceramics for self-Q-switched laser. 2006 , 352, 2404-2407		36
961	Random nature of thermal depolarization in laser ceramics. 2006 ,		
960	Preparation of Nd ³⁺ doped LaSc ₃ (BO ₃) ₄ nanocrystallines by homogeneous precipitation method. 2006 , 10, 418-420		1
959	Miniature Solid-State Lasers. 2006 , 9-1-9-98		
958	Application of Stereology on Neodymium-Doped Yttrium Aluminum Garnet (Nd:YAG) Transparent Ceramics. 2006 , 24, 538-542		2
957	Comparison of the Mechanical Properties of Single Crystal and Polycrystalline Yttrium Aluminum Garnet. 2006 , 3, 166-176		61
956	Synthesis and Performance of Advanced Ceramic Lasers. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1936-1944	3.8	196
955	Solid-State Reactive Sintering of Transparent Polycrystalline Nd:YAG Ceramics. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1945-1950	3.8	170
954	Fabrication of transparent Yb,Cr:YAG ceramics by a solid-state reaction method. <i>Ceramics International</i> , 2006 , 32, 785-788	5.1	30
953	Nd:YAG split-disk laser amplifier for 10 J output energy. 2006 , 260, 277-281		5
952	Y ₃ Al ₅ O ₁₂ ceramic absorbers for the suppression of parasitic oscillation in high-power Nd:YAG lasers. 2006 , 121, 88-94		44
951	Infrared to visible frequency upconversion temperature sensor based on Er ³⁺ -doped PLZT transparent ceramics. 2006 , 137, 1-5		68
950	Sol-gel elaboration and characterization of YAG: Tb ³⁺ powdered phosphors. 2006 , 41, 2201-2209		29
949	Neodymium concentration dependence of 0.94-, 1.06- and 1.34- μ m laser emission and of heating effects under 809- and 885-nm diode laser pumping of Nd:YAG. 2006 , 82, 599-605		56
948	Preparation of highly dispersed YAG nano-sized powder by co-precipitation method. <i>Materials Letters</i> , 2006 , 60, 962-965	3.3	70
947	Development of diode-pumped solid-state laser HALNA for fusion reactor driver. 2006 , 155, 27-35		5

946	5.5 J pyrotechnically pumped Nd ³⁺ :Y ₃ Al ₅ O ₁₂ ceramic laser. 2006 , 3, 124-128	18
945	Comparison of Optical, Mechanical and Thermo-Optical Properties of Oxide Polycrystalline Laser Gain Materials with Single Crystals. 2006 , FMK4	3
944	Simple route to Nd:YAG transparent ceramics. 2006 ,	5
943	Comparative Optical Characterization of Transparent Nd-Doped YAG Ceramics and Single Crystals for Laser Applications. 2006 , 45, 2608-2613	
942	Nonlinear dynamics in thin-slice Nd:YAG ceramic lasers: Coupled local-mode laser model. 2006 , 89, 081117	9
941	Optical amplification in Nd ³⁺ doped electro-optic lanthanum lead zirconate titanate ceramics. 2006 , 89, 061113	19
940	YAG Powder Synthesis and Characteristics. 2006 , 45, 231-236	
939	Development of free designable ceramic fiber lasers. 2006 ,	1
938	Methods of Synthesis of Y ₃ Al ₅ O ₁₂ (YAG) – Review. 2007 , 66, 77-84	6
937	From Metal-Organic Precursors to Functional Ceramics and Related Nanoscale Materials. 2007 , 35-70	7
936	Diode-end-pumped passively Q-switched Nd:YAG ceramic laser. 2007 ,	
935	Synthesis and Performance of Advanced Ceramic Lasers. 2007 ,	2
934	Polarization properties of laser-diode-pumped microchip Nd:YAG ceramic lasers. 2007 ,	
933	Radiative Properties of Transparent PLZT Doped with Tm ³⁺ for Active Electro-optical Applications. 2007 , 20, 145-148	2
932	Molecular dynamics simulation of thermodynamic properties of YAG. 2007 , 16, 2779-2785	8
931	Confocal Micro-Fluorescence and Raman Spectroscopy across Grain Boundaries in Transparent Nd ³⁺ :YAG Ceramic Laser Gain Media. 2007 ,	
930	Optical and Mossbauer studies on YAG:Eu nanocrystals synthesized by a sol-gel method. 2007 ,	
929	Optical ceramics from neodymium-activated yttrium oxide. 2007 ,	

928	The progress towards the transparent ceramics fabrication. 2007,		
927	High-efficiency 1040 and 1078 nm laser emission of a Yb:Y ₂ O ₃ ceramic laser with 976 nm diode pumping. 2007, 32, 247-9		52
926	High-energy LDA side-pumped electro-optical Q-switched Nd:YAG ceramic laser. 2007, 24, 1042		19
925	Synthesis of highly sinterable YAG nanopowders by a modified co-precipitation method. <i>Journal of Alloys and Compounds</i> , 2007, 433, 328-331	5-7	33
924	Progress in ceramic Nd: YAG laser. 2007,		6
923	Polycrystalline yttrium aluminum garnet (YAG) for IR transparent missile domes and windows. 2007		12
922	Preparation of Nd:YAG nanopowder in a confined environment. 2007, 23, 3947-52		34
921	Ceramic YAG composite with Nd gradient structure for homogeneous absorption of pump power. 2007,		2
920	Characteristic optical properties of transparent color conversion film prepared from YAG:Ce ³⁺ nanoparticles. 2007, 91, 111916		111
919	Laser crystals and ceramics: recent advances. 2007, 1, 93-177		305
918	Ceramic YAG lasers. 2007, 8, 138-152		61
917	The physical properties of transparent Y ₃ Al ₅ O ₁₂ : Elastic modulus at high temperature and thermal conductivity at low temperature. <i>Ceramics International</i> , 2007, 33, 711-714	5-1	86
916	Synthesis of nanosized Nd:YAG powders via gel combustion. <i>Ceramics International</i> , 2007, 33, 1047-1052	5-1	65
915	Enhanced self-heterodyne performance using a Nd-doped ceramic YAG laser. 2007, 272, 425-430		6
914	Thermally-induced-birefringence effects of highly Nd ³⁺ -doped Y ₃ Al ₅ O ₁₂ ceramic lasers. <i>Optical Materials</i> , 2007, 29, 1271-1276	3-3	31
913	Characteristics of Nd ³⁺ -doped Y ₃ ScAl ₄ O ₁₂ ceramic laser. <i>Optical Materials</i> , 2007, 29, 1277-1282	3-3	36
912	Luminescence properties of Nd:YAG nanoceramics prepared by low temperature high pressure sintering method. <i>Optical Materials</i> , 2007, 29, 1244-1251	3-3	30
911	Method of preparation and structural properties of transparent YAG nanoceramics. <i>Optical Materials</i> , 2007, 29, 1252-1257	3-3	84

910	Application of stereology on microstructure of neodymium-doped yttrium aluminum garnet (Nd:YAG) transparent ceramics. 2007 , 445-446, 180-185		17
909	Synthesis of Nd ³⁺ doped nano-crystalline yttrium aluminum garnet (YAG) powders leading to transparent ceramic. <i>Optical Materials</i> , 2007 , 29, 528-531	3.3	52
908	Fabrication and laser performance of polycrystal and single crystal Nd:YAG by advanced ceramic processing. <i>Optical Materials</i> , 2007 , 29, 1289-1294	3.3	88
907	YAG powder synthesis by the modified citrate process. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 593-597	6	18
906	Elasticity and lattice vibrational properties of transparent polycrystalline yttrium aluminum garnet: Experiments and pair potential calculations. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 4719-4725	6	11
905	Oxysulfide optical ceramics doped by Nd ³⁺ for one micron lasing. 2007 , 125, 201-215		23
904	Novel polycrystalline laser material: Nd ³⁺ :Y ₃ Al ₅ O ₁₂ ceramics fabricated by the high-pressure colloidal slip-casting (HPCSC) method. 2007 , 204, 2411-2415		18
903	Diode-Pumped Passively Q-Switched Nd:YAG Ceramic Laser with a Cr ⁴⁺ :YAG Crystal-Saturable Absorber. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1629-1631	3.8	17
902	Diode-Pumped Yb:YAG Ceramic Laser. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3334-3337	3.8	70
901	Synthesis of YAG powder by alcohol-water co-precipitation method. <i>Materials Letters</i> , 2007 , 61, 4287-4289		67
900	Tailored Spectral Designing of Layer-by-Layer Type Composite Nd:Y ₃ ScAl ₄ O ₁₂ /Nd:Y ₃ Al ₅ O ₁₂ Ceramics. 2007 , 13, 838-843		12
899	RE ³⁺ -Ion-Doped YAG Ceramic Lasers. 2007 , 13, 798-809		98
898	Recent Progress in the Development of Neodymium-Doped Ceramic Ytria. 2007 , 13, 831-837		16
897	Preparation of nanopowdered M ₁ × R × F ₂ +x (M = Ca, Sr, Ba; R = Ce, Nd, Er, Yb) Solid Solutions. 2007 , 52, 315-320		24
896	Properties of the translucent ceramics Nd: Y ₂ O ₃ prepared by pulsed compaction and sintering of weakly aggregated nanopowders. 2007 , 33, 387-393		5
895	Influence of the Grain Boundaries on the Heat Transfer in Laser Ceramics. 2007 , 14, 1-13		23
894	Characterizations and laser performances of highly transparent Nd ³⁺ :Y ₃ Al ₅ O ₁₂ laser ceramics. <i>Optical Materials</i> , 2007 , 29, 1258-1262	3.3	149
893	Fabrication of submicron-sized oxide phosphors and their spectroscopic properties. 2007 , 42, 894-898		5

892	Synthesis and characterization of nanocrystalline Yb:Lu ₂ O ₃ by modified Pechini method. 2008 , 146, 7-15		34
891	Fluoride optical nanoceramics. 2008 , 57, 877-886		22
890	Solid-state-reaction fabrication and properties of a high-doping Nd:YAG transparent laser ceramic. 2008 , 2, 248-252		8
889	New nonlinear-laser effects in crystalline fine-grained ceramics based on cubic Sc ₂ O ₃ and Lu ₂ O ₃ oxides: second and third harmonic generation, and cascaded self-sum-frequency mixing in UV spectral region. 2008 , 5, 109-113		23
888	Transparent, Polycrystalline Upconverting Nanoceramics: Towards 3-D Displays. 2008 , 20, 1270-1273		128
887	Preparation of Tb ³⁺ -activated Y ₃ Al ₅ O ₁₂ monocrystalline nanoparticles using solution combustion technique. <i>Optical Materials</i> , 2008 , 31, 401-404	3-3	5
886	Freeze-dried nanometric neodymium-doped YAG powders for transparent ceramics. 2008 , 199, 314-320		32
885	Sintering and grain growth in SiO ₂ doped Nd:YAG. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 1527-1534	6	135
884	Synthesis of yttrium aluminum garnet (YAG) powder by homogeneous precipitation combined with supercritical carbon dioxide or ethanol fluid drying. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 2903-2914	6	41
883	Nanostructured Nd:YAG powders via gel combustion: The influence of citrate-to-nitrate ratio. <i>Ceramics International</i> , 2008 , 34, 141-149	5-1	69
882	YAG ceramic processed by slip casting via aqueous slurries. <i>Ceramics International</i> , 2008 , 34, 397-401	5-1	24
881	Aqueous slip casting of transparent yttrium aluminum garnet (YAG) ceramics. <i>Ceramics International</i> , 2008 , 34, 1309-1313	5-1	68
880	Fabrication of YAG transparent ceramics by two-step sintering. <i>Ceramics International</i> , 2008 , 34, 1709-1712		31
879	Densification and microstructure evolution of Cr ⁴⁺ , Nd ³⁺ :YAG transparent ceramics for self-Q-switched laser. <i>Ceramics International</i> , 2008 , 34, 1675-1679	5-1	20
878	Efficient tunable Yb:YAG ceramic laser. 2008 , 281, 4411-4414		48
877	Fabrication and luminescence studies of Ce:Y ₃ Al ₅ O ₁₂ transparent nanoceramic. <i>Optical Materials</i> , 2008 , 30, 714-718	3-3	35
876	Fabrication, microstructure and properties of highly transparent Nd:YAG laser ceramics. <i>Optical Materials</i> , 2008 , 31, 6-17	3-3	122
875	Optical Nd ³⁺ :Y ₂ O ₃ ceramics of nanopowders compacted by static pressure using the ultrasonic method. 2008 , 3, 474-480		5

874	Diode end-pumped passively Q-switched Nd:YAG ceramic laser with Cr ⁴⁺ :YAG saturable absorber. 2008 , 18, 1508-1511		13
873	Effect of Silica on the Reactive Sintering of Polycrystalline Nd:YAG Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 406-413	3.8	80
872	Yttrium Aluminum Garnet as a Scavenger for Ca and Si. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3663-3667	3.8	6
871	Ceramic laser materials. 2008 , 2, 721-727		608
870	Ab initio study of a charged vacancy in yttrium aluminum garnet (Y ₃ Al ₅ O ₁₂). 2008 , 20, 3252-12		29
869	4.2 Glasses. 2008 , 97-123		1
868	Investigation of bulk laser damage in transparent YAG ceramics controlled with microstructural refinement. 2008 ,		2
867	Luminescence properties of PbF ₂ :Yb ³⁺ /Er ³⁺ nanoparticles synthesized by two different original routes. <i>Journal of Alloys and Compounds</i> , 2008 , 451, 563-566	5.7	13
866	Study of the luminescence of Nd ³⁺ :Y ₂ O ₃ optical ceramic. 2008 , 75, 341		
865	Three-dimensional grain boundary spectroscopy in transparent high power ceramic laser materials. 2008 , 16, 5965-73		67
864	High-Power High-Efficiency Yb ³⁺ -Doped Y ₃ Al ₅ O ₁₂ Ceramic Laser at Room Temperature. 2008 , 47, 2149-2151		18
863	Sinterability of Nd:YAG Powder Prepared by Alcohol-Water Co-Precipitation Method. 2008 , 368-372, 423-425		2
862	Fabrication of High Transparent YAG Ceramics by Vacuum Sintering at Low Temperature. 2008 , 368-372, 420-422		3
861	Sintering of Transparent Polycrystal Nd:YAG with MgO as Additive. 2008 , 368-372, 426-428		
860	Solid-state-reactive fabrication of Cr,Nd:YAG transparent ceramics: the influence of raw material. 2008 , 116, 572-577		7
859	Optical and laser characterization of Nd:YAG ceramics elements. 2008 ,		
858	Optical and laser characterization of 2% Nd:YAG ceramics elements. 2008 ,		
857	Possibility of Structure Management by Ceramic Technology. <i>The Review of Laser Engineering</i> , 2009 , 37, 248-253	0	2

856	Spectroscopic properties and gain cross section of Er, Yb doped Y2O3 transparent ceramic for eye-safe laser. 2009 ,	
855	Current status of ceramic lasers. 2009 ,	
854	Optical absorption in CaF2nanoceramics. 2009 , 39, 943-947	10
853	Prospect of YAG Laser Medium for Laser Space Solar Power System and Possible Application of Graded Structure for Efficient Cooling System. 2009 , 631-632, 9-14	
852	Sucrose combustion synthesis of nanocrystalline yttrium aluminium garnet (Y3Al5O12) powder. 2009 , 108, 217-221	3
851	Optical Properties of Transparent Wavelength-Conversion Film Prepared from YVO[sub 4]:Bi[^{sup} 3+],Eu[^{sup} 3+] Nanophosphors. 2009 , 156, J273	24
850	Neodymium ion diffusion during sintering of Nd : YAG transparent ceramics. 2009 , 42, 052001	11
849	Ba(Mg,Zr,Ta)O3:Nd3+fine-grained ceramics: a novel laser-gain material with disordered structure for high-power laser systems. 2009 , 6, 304-310	21
848	Nonlinear-laser(B)-effects in novel garnet-type fine-grained ceramic-host {YGd2}[Sc2](Al2Ga)O12for Ln3+lasants. 2009 , 6, 671-677	14
847	Preparation of uniformly dispersed YAG ultrafine powders by co-precipitation method with SDS treatment. 2009 , 196, 26-29	46
846	Pre-evaluation method for the spectroscopic properties of YAG bulk materials by solâgel synthetic YAG powder. <i>Ceramics International</i> , 2009 , 35, 2393-2399	5.1 16
845	First-principle calculations on color center in YâAlâO system. 2009 , 267, 3028-3031	6
844	Fabrication of yttrium aluminum garnet transparent ceramics from yttria nanopowders synthesized by carbonate precipitation. 2009 , 23, 89-93	17
843	Evidence for a double doping regime in Nd:YAG nanopowders. 2009 , 44, 1572-1579	2
842	Influence of combustion reagent and microwave drying method on the characteristics of nano-sized Nd3+:YAG powders synthesized by the gel combustion method. 2009 , 52, 179-187	20
841	Preparation of uniformly dispersed YAG ultrafine powders by coprecipitation method with SDS treatment. 2009 , 48, 413-418	4
840	Femtosecond continuum generation in bulk laser host materials with sub-Ï pump pulses. 2009 , 97, 561-574	206
839	A novel method for the synthesis of YAG:Ce phosphor. 2009 , 27, 886-890	18

838	Development of Nd ³⁺ :Y ₃ Al ₅ O ₁₂ laser ceramics by high-pressure colloidal slip-casting (HPCSC) method. <i>Optical Materials</i> , 2009 , 31, 707-710	3-3	52
837	Fabrication and characteristics of neodymium-activated yttrium oxide optical ceramics. <i>Optical Materials</i> , 2009 , 31, 740-743	3-3	26
836	Synthesis and optical characterizations of Yb-doped CaF ₂ ceramics. <i>Optical Materials</i> , 2009 , 31, 750-753	3-3	100
835	Mechanism of the liquid-phase sintering for Nd:YAG ceramics. <i>Optical Materials</i> , 2009 , 31, 711-715	3-3	73
834	Suppression of Q-switching instabilities in a passively mode-locked Nd:Y ₃ Al ₅ O ₁₂ ceramic laser. <i>Optical Materials</i> , 2009 , 31, 725-728	3-3	4
833	Waveguiding terbium-doped yttrium aluminum garnet coatings based on the sol-gel process. 2009 , 517, 4610-4614		10
832	Transparent ceramics for lighting. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 237-244	6	61
831	The effect of silica doping on neodymium diffusion in yttrium aluminum garnet ceramics: implications for sintering mechanisms. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 2517-2526	6	53
830	Luminescence properties of Cr ³⁺ :Y ₃ Al ₅ O ₁₂ nanocrystals. 2009 , 129, 548-553		23
829	Effects of rare-earth doping on thermal conductivity in Y ₃ Al ₅ O ₁₂ crystals. <i>Optical Materials</i> , 2009 , 31, 720-724	3-3	41
828	High yield syntheses of reactive fluoride K _{1-x/2} (Y,Ln) _{x/2} F _{1+2x} nanoparticles. <i>Optical Materials</i> , 2009 , 31, 1177-1183	3-3	12
827	Microstructure of composite YAG crystal/ceramics. <i>Ceramics International</i> , 2009 , 35, 2711-2713	5-1	6
826	Fabrication and properties of highly transparent Tm ₃ Al ₅ O ₁₂ (TmAG) ceramics. <i>Ceramics International</i> , 2009 , 35, 2927-2931	5-1	13
825	Synthesis of nanopowders of yttrium aluminum garnet doped by cerium(III). 2009 , 35, 504-510		8
824	Preparation and characterization of transparent Nd:YAG ceramics. 2009 , 17,		7
823	Evaluation of oxide ion diffusivity in YAG ceramics. 2009 , 25, 1341-1345		7
822	Fabrication of transparent Nd:YAG ceramics by vacuum sintering with CaF ₂ and tetraethoxysilane additives. 2009 , 25, 1062-1064		1
821	Influence of precipitants on morphology and sinterability of Nd ³⁺ :Lu ₂ O ₃ nanopowders by a wet chemical processing. <i>Journal of Alloys and Compounds</i> , 2009 , 479, 870-874	5-7	18

820	Synthesis of YAG powder by the modified sol-gel combustion method. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 449-451	5-7	35
819	Wavelength translation based on photoinduced broadband absorption in Nd ³⁺ -doped lanthanum lead zirconate titanate ceramics. 2009 , 34, 1570-2		3
818	Fabrication of transparent yttrium aluminum garnet ceramic. 2009 , 152, 012079		8
817	Tunable Terahertz Signals Using a Helicoidally Polarized Ceramic Microchip Laser. 2009 , 21, 480-482		19
816	Broadly Tunable Yb ³⁺ -Doped Y ₃ Al ₅ O ₁₂ Ceramic Laser at Room Temperature. 2009 , 48, 060205		16
815	Preparation and optical properties of transparent Ce:YAG ceramics for high power white LED. 2009 , 1, 012031		27
814	Energy transfer in YAG ceramics codoped with Nd ³⁺ and Cr ³⁺ . 2009 ,		
813	Micro Solid-State Photonics - Review. <i>The Review of Laser Engineering</i> , 2009 , 37, 227-234	0	4
812	R&D of Advanced Ceramics Activities in China and Shanghai Institute of Ceramics Chinese Academy of Sciences (SICCAS). 2009 , 1-22		
811	Yb:YAG composite ceramic laser. 2010 ,		2
810	ChemInform Abstract: Fabrication and Optical Properties of High-Performance Polycrystalline Nd:YAG Ceramics for Solid-State Lasers.. 2010 , 26, no-no		2
809	Fabrication and Spectroscopic Properties of Nd:Lu ₂ O ₃ Transparent Ceramics for Laser Media. 2010 , 605-610		
808	Preparation of Transparent Ceramic Nd:YAG with MgO as Additive. 2010 , 545-552		
807	Sintering Evolution of Novel Nd:YAG Powders with Teos as Additive. 2010 , 585-590		
806	Passively Q-switched Nd:YAG ceramic laser towards large pulse energy and short pulse width. 2010 , 20, 187-191		12
805	A study of the structure and scattering mechanisms of subterahertz phonons in lithium fluoride single crystals and optical ceramics. 2010 , 110, 983-988		4
804	Infrared emission and defect centres in Er and Yb codoped Y ₃ Al ₅ O ₁₂ phosphors. 2010 , 100, 1123-1130		13
803	Green luminescence and EPR studies on Mn-activated yttrium aluminum garnet phosphor. 2010 , 98, 407-415		28

802	Repairing nanoscale scratched grooves on polycrystalline ceramics using optical near-field assisted sputtering. 2010 , 99, 75-78		14
801	BaHfO ₃ :Ce sintered ceramic scintillators. 2010 , 45, 386-388		16
800	Spectroscopic properties of Yb ³⁺ -doped Y ₃ Al ₅ O ₁₂ nano-ceramics obtained under different sintering pressures. 2010 , 45, 304-306		15
799	Fabrication and optical properties of a highly transparent Nd:YAG ceramic. 2010 , 29, 524-527		
798	Electrokinetic properties of Nd:YAG nanopowder and a high concentration slurry with ammonium poly(acrylic acid) as dispersant. 2010 , 45, 706-712		5
797	Highly transparent ceramics with disordered crystal structure. 2010 , 53, 263-269		5
796	Luminescence Quantum Efficiency of $\{\text{Nd}^{3+}:\text{Y}_3\text{Al}_5\text{O}_{12}\}$ Garnet Laser Ceramics Determined by Pump-Induced Line Broadening. 2010 , 46, 1870-1876		7
795	Influence of fuels on the morphology of undoped Y ₃ Al ₅ O ₁₂ and photoluminescence of Y ₃ Al ₅ O ₁₂ :Eu ³⁺ prepared by a combustion method. 2010 , 45, 1157-1161		14
794	Preparation, X-ray analysis and magnetic investigation of nanostructured Co:Yb ₂ O ₃ . 2010 , 45, 1964-1968		8
793	Quantitative characterization of pores in transparent ceramics by coupling electron microscopy and confocal laser scanning microscopy. <i>Materials Letters</i> , 2010 , 64, 1854-1857	3-3	15
792	Preparation of Nd:Y ₃ Al ₅ O ₁₂ nanocrystals by low temperature glycol route. 2010 , 45, 1179-1182		8
791	Ho:YAG ceramic laser pumped by Tm:YLF lasers at room temperature. 2010 , 7, 351-354		40
790	Study on the effect and mechanism of zirconia on the sinterability of yttria transparent ceramic. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 3125-3129	6	54
789	Size-effect on concentration quenching in Yb ³⁺ -doped Y ₃ Al ₅ O ₁₂ nano-crystals. 2010 , 130, 603-610		27
788	108 W Nd: YAG ceramic laser with birefringence compensation resonator. 2010 , 283, 5183-5186		8
787	A kilowatt level diode-side-pumped QCW Nd:YAG ceramic laser. 2010 , 283, 5145-5148		18
786	Fabrication, microstructure and optical properties of Er ³⁺ :YAG glass-ceramics. <i>Optical Materials</i> , 2010 , 32, 886-890	3-3	21
785	Effect of ZrO ₂ on the sinterability and spectral properties of (Yb _{0.05} Y _{0.95}) ₂ O ₃ transparent ceramic. <i>Optical Materials</i> , 2010 , 32, 920-923	3-3	42

784	Influence of heating rate on optical properties of Nd:YAG laser ceramic. <i>Ceramics International</i> , 2010 , 36, 2197-2201	5.1	30
783	Upconversion luminescence of high content Er-doped YAG transparent ceramics. <i>Ceramics International</i> , 2010 , 36, 193-197	5.1	43
782	Influence of magnesia on sintering stress of alumina. <i>Ceramics International</i> , 2010 , 36, 1143-1146	5.1	12
781	Study on co-precipitation synthesized Y3Al5O12:Ce yellow phosphor for white LED. 2010 , 28, 713-716		25
780	First-Principles Thermochemistry and Thermodynamic Modeling of the Al2O3-Nd2O3-Bi2O3-Y2O3 Pseudoquaternary System. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 4158-4167	3.8	11
779	Fabrication and Laser Performance of (Yb0.05Y0.95-xLax)2O3 Ceramics. 2010 , 611-615		
778	. 2010 ,		2
777	High-Power and High Efficiency Yb:YAG Ceramic Laser at Room Temperature. 2010 ,		1
776	Towards optical quality yttrium aluminum garnet (YAG) fibers: recent efforts at AFRL/RX. 2010 ,		3
775	Influence of Flux on Morphological and Luminescent Properties of Y3Al5O12:Tb3+ Phosphor. 2010 , 663-665, 177-182		
774	Evidence of the Inhomogeneous Ce3+ Distribution across Grain Boundaries in Transparent Polycrystalline Ce3+-Doped (Gd,Y)3Al5O12 Garnet Optical Ceramics. 2010 , 49, 022602		29
773	Investigation on the scattering effect of ceramic Nd:YAG. 2010 , 19, 064202		
772	Technology and characterization of Nd:YAG ceramics. 2010 ,		
771	A review of photocatalysts prepared by sol-gel method for VOCs removal. 2010 , 11, 2336-61		165
770	Crystal Growth of Laser Host Fluorides and Oxides. 2010 , 479-507		1
769	Sensitized Yb3+ emission in (Nd, Yb):Y3Al5O12 transparent ceramics. <i>Journal of Applied Physics</i> , 2010 , 108, 123112	2.5	12
768	Nd-Sialon Microcrystals with an Orthogonal Array. 2010 , 10, 2439-2442		18
767	A study on the effect factors of sol-gel synthesis of yttrium aluminum garnet nanopowders. <i>Journal of Applied Physics</i> , 2010 , 107, 064903	2.5	23

766	Correlation between Segregation of Rare Earth Dopants in Melt Crystal Growth and Ceramic Processing for Optical Applications. 2010 , 49, 075601		31
765	Light scattering by pores in transparent Nd:YAG ceramics for lasers: correlations between microstructure and optical properties. 2010 , 18, 14992-5002		69
764	Laser ceramics with rare-earth-doped anisotropic materials. 2010 , 35, 3598-600		51
763	Laser ceramic 1 Production methods. 2010 , 77, 565		8
762	Morphology investigation of yttrium aluminum garnet nano-powders prepared by a sol-gel combustion method. <i>Journal of Alloys and Compounds</i> , 2010 , 500, 34-38	5-7	23
761	Effects of aging on the characteristics of Nd:YAG nano-powders. <i>Journal of Alloys and Compounds</i> , 2010 , 502, 206-210	5-7	23
760	Fabrication of Nd:YAG transparent ceramics with TEOS, MgO and compound additives as sintering aids. <i>Journal of Alloys and Compounds</i> , 2010 , 502, 225-230	5-7	80
759	Efficient energy transfer between Ce ³⁺ and Nd ³⁺ in cerium codoped Nd: YAG laser quality transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 475-478	5-7	19
758	Multicenter Structure and Dynamical Processes in the Rare Earth Doped Garnet and Sesquioxide Laser Crystals and Ceramics. 2010 , 43, 357-372		4
757	High Transmittance of Nd-Doped YAG Transparent Ceramics Prepared by Solid-State Reaction Method. 2010 , 411, 62-68		4
756	Synthesis and Characterization of CaF ₂ Nanoparticles with Different Doping Concentrations of Er ³⁺ . 2011 , 3, 73-78		8
755	Spectroscopic characteristics of Dy ³⁺ doped Y ₃ Al ₅ O ₁₂ transparent ceramics. <i>Journal of Applied Physics</i> , 2011 , 110, 083120	2.5	49
754	Afterglow Luminescence in Ce ³⁺ -Doped Y ₃ Sc ₂ Ga ₃ O ₁₂ Ceramics. 2011 , 4, 042602		46
753	Laser Demonstration of Diode-Pumped Nd ³⁺ -Doped Fluorapatite Anisotropic Ceramics. 2011 , 4, 022703		31
752	Polycrystalline Ceramic Er:YAG Laser In-Band Pumped by a High-Power Er,Yb Fiber Laser at 1532 nm. 2011 , 4, 052701		16
751	Chemical Preparation of Advanced Ceramic Materials. 2011 , 429-454		5
750	Study on the relation between optical scattering and porosity in transparent Nd/Yb:YAG ceramics. 2011 ,		1
749	Preparation of Transparent Ce ³⁺ :GdYAG Ceramics Phosphors for White LED. 2011 , 18, 102005		21

748	Luminescence study of neodymium-doped yttrium aluminates. 2011 , 78, 408		6
747	Lasing action and optical amplification in Nd ³⁺ doped electrooptic lanthanum lead zirconate titanate ceramics. 2011 , 19, 2965-71		17
746	In-band pumped highly efficient Ho:YAG ceramic laser with 21 W output power at 2097 nm. 2011 , 36, 1575-7		51
745	First laser oscillation and broad tunability of 1 at. % Yb-doped Sc ₂ O ₃ and Lu ₂ O ₃ ceramics. 2011 , 36, 4284-6		31
744	Highly efficient Tm:YAG ceramic laser resonantly pumped at 1617 nm. 2011 , 36, 4485-7		45
743	High-power polycrystalline Er:YAG ceramic laser at 1617 nm. 2011 , 36, 4767-9		29
742	Domain-controlled laser ceramics toward Giant Micro-photonics [Invited]. 2011 , 1, 1040		69
741	Comparison of Nd:phosphate glass, Yb:YAG and Yb:S-FAP laser beamlines for laser inertial fusion energy (LIFE) [Invited]. 2011 , 1, 1341		40
740	Fabrication of Nd:YAG transparent ceramics with both TEOS and MgO additives. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5274-5279	5:7	68
739	Formation and calcination temperature-dependent sintering activity of YAG precursor synthesized via reverse titration method. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2407-2413	5:7	30
738	White light emission in Tm ³⁺ /Er ³⁺ /Yb ³⁺ tri-doped Y ₂ O ₃ transparent ceramic. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2793-2796	5:7	59
737	Comparison of spectroscopic properties of neodymium-doped aluminium garnet (Nd:YAG) ceramics obtained by reactive sintering of Al ₂ O ₃ , Y ₂ O ₃ and Nd ₂ O ₃ and by synthesis of nanocrystalline Nd:YAG powders. 2011 ,		2
736	Laser Applications of Transparent Polycrystalline Ceramic. 2011 ,		1
735	Recent Progress in Transparent Polycrystalline Ceramics for Optical Applications. <i>The Review of Laser Engineering</i> , 2011 , 39, 300-305	0	1
734	Pre-evaluation method for the spectroscopic properties of YAG bulk materials by sol-gel synthetic powder. 2011 , 18, 102013		
733	Light scattering by residual pores in transparent zirconia ceramics. 2011 , 119, 133-135		25
732	Synthesis of High Purity Yb ³⁺ -Doped Lu ₂ O ₃ Powder for High Power Solid-State Lasers. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3001-3005	3.8	35
731	Solid-State Reactive Sintering and Optical Characteristics of Transparent Er:YAG Laser Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 95, n/a-n/a	3.8	3

730	Microstructural characteristics of Nd:YAG powders leading to transparent ceramics. 2011 , 29, 585-591		10
729	Fabrication and laser behaviors of Nd:YAG ceramic microchips. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2241-2246	6	44
728	Transparent Lu ₂ O ₃ :Eu ceramics by sinter and HIP optimization. <i>Optical Materials</i> , 2011 , 33, 1721-1726	3-3	53
727	Synthesis of Tb ₃ Al ₅ O ₁₂ (TAG) transparent ceramics for potential magneto-optical applications. <i>Optical Materials</i> , 2011 , 33, 1833-1836	3-3	91
726	Efficient energy transfer between Ce ³⁺ /Cr ³⁺ and Nd ³⁺ ions in transparent Nd/Ce/Cr:YAG ceramics. <i>Optical Materials</i> , 2011 , 34, 303-307	3-3	19
725	Size ratio induced yttrium aluminum garnet formation characteristics in nano-scaled Y ₂ O ₃ ∕Al ₂ O ₃ powder systems via fast firing processes. 2011 , 129, 534-539		5
724	Synthesis of submicron-sized spherical Y ₂ O ₃ powder for transparent YAG ceramics. 2011 , 46, 170-174		27
723	Synthesis of mono-dispersed spherical Nd:Y ₂ O ₃ powder for transparent ceramics. <i>Ceramics International</i> , 2011 , 37, 3523-3529	5-1	24
722	Synthesis of nanocrystalline powders of yttrium aluminum garnet doped by neodymium. 2011 , 6, 504-509		7
721	The influence of doping on the laser performance. 2011 , 21, 2005-2010		1
720	Nd:Y ₂ O ₃ Powder Synthesized by Low Temperature Calcination for Fabricating Transparent Ceramics. 2011 , 21, 962-965		
719	Transparent ceramics based on yttrium subgroup lanthanide, yttrium, and scandium oxides. 2011 , 49, 537-545		1
718	Influence of pH and microwave calcination on the morphology of KGd(WO ₄) ₂ particles derived by Pechini Sol-gel method. 2011 , 58, 419-426		20
717	Fabrication and laser performance of highly transparent Nd:YAG ceramics from well-dispersed Nd:Y ₂ O ₃ nanopowders by freeze-drying. 2011 , 13, 3853-3860		14
716	QCW diode-side-pumped Nd:YAG ceramic laser with 247 W output power at 1123 nm. 2011 , 103, 285-289		7
715	Scattering effect and laser performance for the Nd:YAG transparent ceramics. 2011 , 104, 625-631		9
714	Fabrication and laser output of transparent Nd:YAG ceramics from microwave synthesized precursors. 2011 , 30, 607-615		3
713	Effects of sintering additives on preparation of CaF ₂ transparent ceramics. 2011 , 26, 1179-1183		6

712	Synthesis and Crystal Structure of the Fluoride-Rich Rubidium Scandium Fluoride Oxosilicate Rb ₃ Sc ₂ F ₅ Si ₄ O ₁₀ . 2011 , 637, 1152-1157		8
711	Diode pumped and mode-locked Yb:GdYAG ceramic lasers. 2011 , 8, 719-722		21
710	Optical properties of Er,Yb co-doped YAG transparent ceramics. <i>Ceramics International</i> , 2011 , 37, 513-519.	1	47
709	Preparation and characterization of transparent Tm:YAG ceramics. <i>Ceramics International</i> , 2011 , 37, 1133-1137.	17	
708	Fabrication, microstructure and optical properties of polycrystalline Er ³⁺ :Y ₃ Al ₅ O ₁₂ ceramics. <i>Ceramics International</i> , 2011 , 37, 119-125	5-1	32
707	Properties of transparent Ce:YAG ceramic phosphors for white LED. <i>Optical Materials</i> , 2011 , 33, 688-691.	3	390
706	Laser oscillation in hot pressed 10% Yb ³⁺ :Lu ₂ O ₃ ceramic. <i>Optical Materials</i> , 2011 , 33, 670-674	3-3	44
705	Preparation and laser performance of Nd-doped yttrium lanthanum oxide transparent ceramic. <i>Optical Materials</i> , 2011 , 33, 692-694	3-3	25
704	Synthesis of Nd:YAG powders leading to transparent ceramics: The effect of MgO dopant. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 653-657	6	51
703	Origin of light scattering in ytterbium doped calcium fluoride transparent ceramic for high power lasers. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1619-1630	6	83
702	Effect of Nd concentration on structural and optical properties of Nd:Y ₂ O ₃ transparent ceramic. 2011 , 131, 1953-1958		50
701	Radiation induced synthesis of powder yttrium aluminium garnet. 2011 , 80, 957-962		11
700	Application of Mechanochemical Processing to Synthesis of YAG: Ce Garnet Powder. 2011 , 56,		12
699	Fabrication and Characterization of Yttrium Lanthanum Oxide Transparent Ceramics Using Powders Prepared by Different Methods. 2011 , 299-300, 588-591		
698	Fabrication of YAG Transparent Ceramics using Slip Casting with Ethanol. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011 , 26, 254-256	1	6
697	Selection of different sintering aids and heat-treatment of Y ₂ O ₃ raw powders for Yb ³⁺ :Y ₃ Al ₅ O ₁₂ transparent ceramics. 2011 ,		2
696	Processing and transparency of polycrystalline yttrium aluminum garnet (YAG) fibers for optical applications. 2011 ,		5
695	A 526 W Diode-Pumped Nd:YAG Ceramic Slab Laser. 2011 , 28, 094208		3

694	Composite YAG/Nd:YAG transparent ceramics for high-power lasers. 2011,		3
693	Research on Discretely Tunable Nd:YAG Ceramic Material. 2012, 531, 133-136		
692	Synthesis of the High Performance YAG:Ce Phosphor by a Sol-Gel Method. 2012, 1, R119-R122		13
691	Thermally induced scattering of radiation in laser ceramics with arbitrary grain size. 2012, 29, 3307		23
690	Yb:LuAG laser ceramics: a promising high power laser gain medium. 2012, 2, 1425		29
689	High efficiency laser action of 1% at. Yb ³⁺ :2O ₃ ceramic. 2012, 20, 22134-42		9
688	Gain structuration in dual-wavelength Nd:YSAG ceramic lasers. 2012, 20, 25596-602		12
687	Comparison of Nd:YAG optical ceramics produced by different sintering routes. 2012,		
686	Fabrication and Spectroscopic Properties of Transparent Yb:YAG Laser Ceramics. 2012, 185, 44-47		3
685	Influences of Process Parameters on the Forming of YAG Phase. 2012, 164, 65-68		
684	Dressed photon technology. 2012, 1, 83-97		20
683	Preparation of translucent YAG:Ce ceramics by reaction sintering. 2012, 35, 012018		1
682	Solid-state laser processes and active materials. 18-120		
681	Atomic Structure, Electronic Structure, and Optical Properties of YAG (110) Twin Grain Boundary. <i>Journal of the American Ceramic Society,</i> 2012, 95, 3894-3900	3.8	3
680	Mechanism of Intrinsic Point Defects and Oxygen Diffusion in Yttrium Aluminum Garnet: First-Principles Investigation. <i>Journal of the American Ceramic Society,</i> 2012, 95, 3628-3633	3.8	21
679	Fabrication and spectroscopic characterization of Ce ³⁺ doped Sr ₂ Y ₈ (SiO ₄) ₆ O ₂ translucent ceramics. <i>Optical Materials,</i> 2012, 34, 1155-1160	3.3	18
678	Structural features of Ce doped YAG nanoparticles synthesized by modified sol-gel method. 2012, 44, 1486-1489		6
677	Simultaneous synthesis and densification of transparent, photoluminescent polycrystalline YAG by current activated pressure assisted densification (CAPAD). 2012, 177, 1178-1187		26

676	Effect of La ₂ O ₃ on microstructures and laser properties of Nd:YAG ceramics. <i>Journal of Alloys and Compounds</i> , 2012 , 512, 1-4	5-7	32
675	Synthesis of nanocrystalline yttria powder and fabrication of Cr,Nd:YAG transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2012 , 515, 49-56	5-7	22
674	Synthesis, morphology and spectroscopy of Nd:GSAG nano-powders. <i>Journal of Alloys and Compounds</i> , 2012 , 525, 25-27	5-7	3
673	Preparation and characteristics of core-shell structure Y ₃ Al ₅ O ₁₂ :Yb ³⁺ @SiO ₂ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2012 , 528, 1-9	5-7	14
672	Sintering and laser behavior of composite YAG/Nd:YAG/YAG transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2012 , 527, 66-70	5-7	37
671	Problems and recent advances in melt crystal growth technology. 2012 , 360, 146-154		19
670	Synthesis of ceramic active Nd:YAG laser medium. 2012 , 25, 292-297		3
669	Characterization and comparison of 1% at Yb-doped Lu ₂ O ₃ and Sc ₂ O ₃ ceramics as laser gain media. 2012 , 22, 1851-1855		7
668	Formation probability of Cr-Nd pair and energy transfer from Cr to Nd in Y ₃ Al ₅ O ₁₂ ceramics codoped with Nd and Cr. <i>Journal of Applied Physics</i> , 2012 , 112, 063508	2-5	25
667	Synthesis of Monodispersed Spherical Yttrium Aluminum Garnet (YAG) Powders by a Homogeneous Precipitation Method. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3821-3826	3-8	53
666	Fabrication and performance optimization of the magneto-optical (Tb ^{1-x} R ^x) ₃ Al ₅ O ₁₂ (R = Y, Ce) transparent ceramics. 2012 , 101, 131908		43
665	Spatial distribution of the Yb ³⁺ rare earth ions in Y ₃ Al ₅ O ₁₂ and Y ₂ O ₃ optical ceramics as analyzed by TEM. 2012 , 22, 18221		36
664	Fabrication, properties and thermo-luminescent dosimetric application of CaF ₂ :Mn transparent ceramic. 2012 , 287, 51-55		16
663	Ceramic Laser Materials. 2012 , 5, 258-277		109
662	2.7 μ m Emission from Transparent Er ³⁺ ,Tm ³⁺ Codoped Yttrium Aluminum Garnet (Y ₃ Al ₅ O ₁₂) Nanocrystals-Tellurate Glass Composites by Novel Comelting Technology. 2012 , 116, 19941-19950		61
661	Ceramic lasers. 386-441		
660	Wavelength switching in Nd:YSAG ceramic laser induced by thermal effect. 2012 , 9, 344-349		13
659	Effect of Si-induced defects on 1 μ m absorption losses in laser-grade YAG ceramics. <i>Journal of Applied Physics</i> , 2012 , 111, 093104	2-5	21

658	Laser Performance of 1% at. Yb : Lu ₂ O ₃ Ceramic. 2012 , 2012, 1-7		1
657	Fluoride laser nanoceramics. 2012 , 345, 012017		11
656	Optical Materials and Their Properties. 2012 , 253-399		2
655	High-resolution confocal fluorescence thermal imaging of tightly pumped microchip Nd:YAG laser ceramics. 2012 , 107, 697-701		25
654	Polycrystalline Ho:YAG Transparent Ceramics for Eye-Safe Solid State Laser Applications. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 52-55	3.8	32
653	Fabrication and Laser Behavior of Composite Yb:YAG Ceramic. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 56-69	3.8	46
652	Nanostructured, Infrared-Transparent Magnesium-Aluminate Spinel with Superior Mechanical Properties. 2012 , 9, 83-90		24
651	Optical properties of the polycrystalline transparent Nd:YAG ceramics prepared by two-step sintering. <i>Ceramics International</i> , 2012 , 38, S649-S652	5.1	21
650	Preparation of YAG ceramics through a novel process. <i>Ceramics International</i> , 2012 , 38, 855-859	5.1	2
649	Chemical composition evolution of YAG co-precipitate determined by pH during aging period and its effect on precursor properties. <i>Ceramics International</i> , 2012 , 38, 1635-1641	5.1	27
648	Nd:YAG nano-crystalline powders derived by combining co-precipitation method with citric acid treatment. <i>Ceramics International</i> , 2012 , 38, 3185-3189	5.1	18
647	The effect of precipitant concentration on the formation procedure of yttrium aluminum garnet (YAG) phase. <i>Ceramics International</i> , 2012 , 38, 3763-3771	5.1	19
646	Preparation of YAG powders and ceramics through mixed precipitation method. <i>Ceramics International</i> , 2012 , 38, 4401-4405	5.1	7
645	Effect of preparation route on the properties of slip-casted Al ₂ O ₃ /YAG composites. <i>Ceramics International</i> , 2012 , 38, 4819-4826	5.1	14
644	Photoluminescence enhancement of YAG:Ce ³⁺ phosphor prepared by co-precipitation-rheological phase method. 2012 , 30, 21-24		12
643	Synthesis and characterization of nanocrystalline Nd ³⁺ -doped gadolinium scandium aluminum garnet powders by a gel-combustion method. 2012 , 47, 1709-1712		5
642	LD-end-pumped passively Q-switched Nd:YAG ceramic laser with single wall carbon nanotube saturable absorber. 2012 , 44, 2149-2153		16
641	Fabrication and laser properties of transparent Yb:YAG ceramics. <i>Optical Materials</i> , 2012 , 34, 936-939	3.3	47

640	Fifty years of advances in solid-state laser materials. <i>Optical Materials</i> , 2012 , 34, 499-512	3.3	122
639	Growth of optical grade yttrium oxide single crystal via ceramic technology. <i>Optical Materials</i> , 2012 , 34, 955-958	3.3	8
638	Fabrication and properties of highly transparent Er:YAG ceramics. <i>Optical Materials</i> , 2012 , 34, 973-976	3.3	25
637	Total-reflection active-mirror amplifier for high pulse energy and high average power by using a composite ceramic. <i>Optical Materials</i> , 2012 , 34, 977-980	3.3	2
636	Photoluminescence and laser behavior of Yb:YAG ceramic. <i>Optical Materials</i> , 2012 , 34, 757-760	3.3	21
635	Fabrication of Nd ³⁺ :YAG laser ceramics with various approaches. <i>Optical Materials</i> , 2012 , 34, 1482-1487	3.3	21
634	Synthesis of nano-sized and highly sinterable Nd:YAG powders by the urea homogeneous precipitation method. 2012 , 217, 140-147		31
633	Effect of ammonium sulfate on the monodispersed Y ₃ Al ₅ O ₁₂ nanopowders synthesized by co-precipitant method. 2012 , 218, 46-50		12
632	Structural and optical properties of Tm:Y ₂ O ₃ transparent ceramic with La ₂ O ₃ , ZrO ₂ as composite sintering aid. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 381-388	6	47
631	Integrated analysis of non-linear loss mechanisms in Yb:YAG ceramics for laser applications. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2273-2281	6	33
630	Towards the preparation of transparent LuAG:Nd ³⁺ ceramics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 3085-3089	6	16
629	Laser synthesis of magnetic iron oxide nanopowders. 2012 , 57, 543-549		40
628	Fabrication and Optical Properties of Highly Transparent Er:YAG Polycrystalline Ceramics for Eye-Safe Solid-State Lasers?. 2013 , 10, 123-128		13
627	Fabrication, Microstructure, and Luminescent Properties of Ce ³⁺ -Doped Lu ₃ Al ₅ O ₁₂ (Ce:LuAG) Transparent Ceramics by Low-Temperature Vacuum Sintering. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1930-1936	3.8	35
626	Investigation of lasing characteristics of 1% Nd : YAG laser ceramics. 2013 , 43, 288-290		5
625	Optical and scintillation properties of Sc ₂ O ₃ , Y ₂ O ₃ and Lu ₂ O ₃ transparent ceramics synthesized by SPS method. 2013 , 55, 136-140		35
624	Effect of spatial confinement on luminescence of Y ₃ Al ₅ O ₁₂ nano-particles doped with chromium ions. 2013 , 144, 191-197		3
623	Nanopowders M ₂ O ₃ (M = Y, La, Yb, Nd) with spherical particles and laser ceramics based on them. 2013 , 43, 271-275		11

622	High-efficiency high-power QCW diode-side-pumped zigzag Nd:YAG ceramic slab laser. 2013 , 111, 111-116		16
621	Physical properties of zircon and scheelite lutetium orthovanadate: Experiment and first-principles calculation. 2013 , 205, 97-103		10
620	A facile and "green-chemistry" method to synthesize pure and Nd-doped Y3Al5O12 nanopowders at low-temperatures. <i>Ceramics International</i> , 2013 , 39, 9405-9414	5.1	4
619	Densification and optical properties of transparent Ho:YAG ceramics. <i>Optical Materials</i> , 2013 , 35, 748-753	3.3	10
618	Magnon, phonon, and electron temperature profiles and the spin Seebeck effect in magnetic insulator/normal metal hybrid structures. 2013 , 88,		157
617	From elaboration to laser properties of transparent polycrystalline Nd-doped Y3Al5O12 and Y3ScAl4O12 ceramics: A comparative study. <i>Optical Materials</i> , 2013 , 35, 704-711	3.3	15
616	Nano-Optics for Enhancing Light-Matter Interactions on a Molecular Scale. 2013 ,		1
615	Optimization of dispersing agents for preparing YAG transparent ceramics. 2013 , 31, 507-511		7
614	Narrow inhomogeneous and homogeneous optical linewidths in a rare earth doped transparent ceramic. 2013 , 87,		19
613	Influence of neodymium-doping on structure and properties of yttrium aluminium garnet. 2013 , 15, 8029		10
612	A setup for measuring the refractive index of a plane-parallel ceramic plate using the optical beam shift method. 2013 , 56, 80-83		3
611	Multifunctional Optical Device With Electrooptic Er ³⁺ and Yb ³⁺ Doped Lanthanum-Modified Lead Zirconate Titanate Ceramic Gain Media. 2013 , 31, 1495-1502		8
610	High power Tm:Fiber laser and in-band pumped Ho-doped ceramic lasers. 2013 ,		
609	Transparent ceramics: Processing, materials and applications. 2013 , 41, 20-54		342
608	Method of preparation and thermodynamic properties of transparent Y3Al5O12 nanoceramics. 2013 , 111, 289-294		3
607	Yb ³⁺ doped Lu2O3 transparent ceramics by spark plasma sintering. <i>Ceramics International</i> , 2013 , 39, 1307-1313	5.1	15
606	High Power Lasers in Material Processing Applications: An Overview of Recent Developments. 2013 , 69-111		6
605	Synthesis and characterization of monoclinic KGd(WO4)2 particles for non-cubic transparent ceramics. <i>Optical Materials</i> , 2013 , 35, 753-756	3.3	9

604	Luminescence and excitation spectra of Cr ³⁺ :MgAl ₂ O ₄ nanoceramics. 2013 , 140, 222-227		23
603	Sintering of transparent Nd:YAG ceramics in oxygen atmosphere. 2013 , 31, 153-157		14
602	Ceramic Phosphors for Light Conversion in LEDs. 2013 , 2, R3168-R3176		112
601	Fabrication and XAFS analysis of Yb ³⁺ doped yttrium lanthanum oxide transparent ceramics. <i>Optical Materials</i> , 2013 , 36, 173-177	3-3	
600	Fabrication of transparent neodymium-doped yttrium aluminum garnet ceramics by high solid loading suspensions. <i>Ceramics International</i> , 2013 , 39, 7921-7926	5-1	9
599	Microwave sintering of Yb:YAG transparent laser ceramics. <i>Optical Materials</i> , 2013 , 35, 761-765	3-3	25
598	Partial wet route for YAG powders synthesis leading to transparent ceramic: A core-shell solid-state reaction process. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2617-2623	6	32
597	Synthesis of nanostructured Nd:Y ₂ O ₃ powders by carbonate-precipitation process for Nd:YAG ceramics. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2625-2631	6	13
596	Ceramic laser materials: Past and present. <i>Optical Materials</i> , 2013 , 35, 693-699	3-3	90
595	The history, development, and future prospects for laser ceramics: A review. 2013 , 39, 44-52		85
594	A graphene-based passively Q-switched polycrystalline Er:YAG ceramic laser operating at 1645 nm. 2013 , 10, 055801		26
593	Is There Segregation of Rare Earth Ions in Garnet Optical Ceramics?. 2013 , 333-345		
592	Thermal decomposition and evolved gas analysis of neodymium-doped yttrium aluminum garnet precursor prepared by co-precipitation. 2013 , 552, 23-27		8
591	Spectroscopic, luminescent and laser properties of nanostructured CaF ₂ :Tm materials. <i>Optical Materials</i> , 2013 , 35, 1859-1864	3-3	18
590	Synthesis and properties of Yb:LuAG transparent ceramics. 2013 , 10, 958-961		7
589	High power single wavelength ceramic Nd:YAG laser at 1116 nm. 2013 , 46, 139-141		14
588	Spectroscopic Characteristics and Laser Performance of $\text{Nd}_{1.8}\text{Y}_{0.2}\text{La}_{0.2}\text{O}_3$ Transparent Ceramics. 2013 , 49, 293-300		6
587	Novel phenomenon on valence unvariation of doping ion in Yb:YAG transparent ceramics using MgO additives. 2013 , 28, 320-324		11

586	Ab initio study the effects of Si and Mg dopants on point defects and Y diffusion in YAG. 2013 , 69, 261-266	37
585	Oxide laser ceramics. 2013 , 54-81	4
584	Perfectly Transparent Sr ₃ Al ₂ O ₆ Polycrystalline Ceramic Elaborated from Glass Crystallization. 2013 , 25, 4017-4024	49
583	Interactions between Y ₂ O ₃ -Al mixture studied by solid-state reaction method. 2013 , 87, 7-10	6
582	Fabrication of transparent Nd:YAG ceramic by vacuum sintering with CaF ₂ additive. 2013 , 104, 207-209	2
581	Technological Innovation in Optical Ceramics. 2013 ,	
580	Orientation control of micro-domains in anisotropic laser ceramics. 2013 , 3, 829	16
579	Synthesis of Ultrafine Spherical Yttrium Aluminum Garnet Powders from Yttrium Nitrate and Aluminum Nitrate System. 2013 , 377, 151-155	
578	Low Temperature Crystal Structure Behaviour of Complex Yttrium Aluminium Oxides YAlO ₃ and Y ₃ Al ₅ O ₁₂ . 2013 , 124, 329-335	13
577	Novel transparent ceramics for solid-state lasers. 2013 , 1, 138-147	17
576	Fluoride laser ceramics. 2013 , 82-109	7
575	Synthesis of RE (Nd) heavily doped YAG ceramics. 187-218	
574	Part I: Characterization of Flammability Behavior of Polyester Fabric Modified with Sol-Gel. 2013 , 5,	8
573	High resolution optical spectroscopy and emission decay of laser ceramics. 300-385	
572	Optical scattering centers in polycrystalline ceramics. 219-240	
571	Introduction. 1-17	
570	The future of ceramic technology. 290-299	
569	Simple Method for Synthesizing Aluminum-Yttrium Garnet (Nd:YAG) Nanopowders by Flushing (Bubbling) with Ammonia. 2014 , 55, 250-254	

568	Fluorescence and Judd-Ofelt Analysis of Er ³⁺ Doped CaF ₂ Transparent Ceramic. 2014 , 875-877, 23-27		1
567	Co-Precipitation of YAG Powders for Transparent Materials: Effect of the Synthesis Parameters on Processing and Microstructure. 2014 , 7, 7145-7156		15
566	Synthesis of YAG Powders by Co-Precipitation Method. 2014 , 602-603, 110-113		1
565	Tape casting of a YAG/Yb:YAG/YAG transparent ceramic for a broadband tunable laser. 2014 , 2,		5
564	Rare earth doped YAG transparent ceramics for solid state lasers. 2014 ,		
563	Highly transparent Nd ³⁺ :Lu ₂ O ₃ produced by spark plasma sintering and its laser oscillation. 2014 , 4, 1420		30
562	Anisotropic Yb:FAP laser ceramics by micro-domain control. 2014 , 4, 2006		19
561	Particle size effects on yttrium aluminum garnet (YAG) phase formation by solid-state reaction. 2014 , 29, 2303-2311		33
560	Effect of composition deviation on the microstructure and luminescence properties of Nd:YAG ceramics. 2014 , 16, 10856-10862		10
559	Fabrication and characterization of 1 at.% Nd ³⁺ :Y ₃ Al ₅ O ₁₂ Laser Ceramics by solid-state reactive sintering. 2014 ,		
558	Effect of air annealing on the optical properties and laser performance of Nd:YAG transparent ceramics. 2014 , 4, 2108		29
557	Improvement of optical properties and suppression of second phase exsolution by doping fluorides in Y ₃ Al ₅ O ₁₂ transparent ceramics. 2014 , 4, 1800		1
556	Physicochemical properties of Al ₂ O ₃ and Y ₂ O ₃ nanopowders produced by laser synthesis and their aqueous dispersions. 2014 , 63, 1504-1510		6
555	Synthesis of Nd:GGG Powder by Liquid Phase Co-Precipitation or Solid State Method and Preparation of its Transparent Ceramic. 2014 , 651-653, 119-123		
554	Highly transparent ceramics obtained from jet milled sesquioxide powders synthesized by co-precipitation method. 2014 , 4, 2497		8
553	Effects of ball milling time on microstructure evolution and optical transparency of Nd:YAG ceramics. <i>Ceramics International</i> , 2014 , 40, 9841-9851	5-1	35
552	Effects of Ce ³⁺ doping concentrations on microstructure and luminescent properties of Ce ³⁺ :Lu ₃ Al ₅ O ₁₂ (Ce:LuAG) transparent ceramics. <i>Optical Materials</i> , 2014 , 36, 1954-1958	3-3	15
551	Sintering kinetics of YAG ceramics. 2014 , 32, 416-422		18

550	Study of Yb:YAG ceramic slab with Cr ⁴⁺ :YAG edge cladding. <i>Ceramics International</i> , 2014 , 40, 8879-8883	5.1	12
549	Solid-state reactive sintering of Nd:YAG transparent ceramics: The effect of Y ₂ O ₃ powders pretreatment. <i>Optical Materials</i> , 2014 , 36, 1591-1597	3.3	35
548	Porosity and pore size dependence of the real in-line transmission of YAG and alumina ceramics. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 2745-2756	6	35
547	Bright persistent ceramic phosphors of Ce ³⁺ -Cr ³⁺ -codoped garnet able to store by blue light. 2014 , 104, 101904		140
546	Effect of ball-milling granulation with PVB adhesive on the sinterability of co-precipitated Yb:YAG nanopowders. <i>Journal of Alloys and Compounds</i> , 2014 , 589, 448-454	5.7	25
545	Cerium-doped yttrium aluminum garnet hollow shell phosphors synthesized via the Kirkendall effect. 2014 , 6, 1145-51		14
544	Phase formation and densification peculiarities of Y ₃ Al ₅ O ₁₂ :Nd ³⁺ during reactive sintering. 2014 , 401, 839-843		17
543	Defect strategies for an improved optical quality of transparent ceramics. <i>Optical Materials</i> , 2014 , 38, 61-74	3.3	40
542	YAG and Y ₂ O ₃ laser ceramics from nonagglomerated nanopowders. 2014 , 50, 951-959		24
541	Influence of doping concentration on microstructure evolution and sintering kinetics of Er:YAG transparent ceramics. <i>Optical Materials</i> , 2014 , 37, 706-713	3.3	20
540	Fabrication and optical characterizations of Yb, Er codoped CaF ₂ transparent ceramic. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 4389-4394	6	33
539	Optical Characterizations of Hot-Pressed Erbium-Doped Calcium Fluoride Transparent Ceramic. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2506-2510	3.8	27
538	Yb ³⁺ Ions Distribution in YAG Nanoceramics Analyzed by Both Optical and TEM-EDX Techniques. 2014 , 118, 15474-15486		22
537	. 2014 , 61, 373-379		8
536	Characteristics of Synthesized Alumina Nanoparticles in a High-Pressure Radio Frequency Thermal Plasma Reactor. 2014 , 42, 759-766		5
535	Electrophoretic deposition of alumina, yttria, yttrium aluminum garnet and lutetium aluminum garnet. 2014 , 49, 6975-6985		6
534	Ceramics With Disordered Structure of the Crystal Field. 2014 , 56, 1219-1229		2
533	Yellow persistent luminescence in Ce ³⁺ -Cr ³⁺ -codoped gadolinium aluminum gallium garnet transparent ceramics after blue-light excitation. 2014 , 7, 062201		54

532	Solid-state reactive sintering of YAG transparent ceramics for optical applications. <i>Journal of Alloys and Compounds</i> , 2014 , 616, 81-88	5-7	43
531	Synthesis, structure and optical properties of polycrystalline Cr,Nd:GSAG powders by a co-precipitation method. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 58-62	5-7	
530	Fabrication and properties of highly transparent Nd-doped CaF ₂ ceramics. <i>Materials Letters</i> , 2014 , 115, 162-164	3-3	35
529	Precipitation of Tm ₂ O ₃ nanopowders for application in reactive sintering of Tm:YAG. <i>Ceramics International</i> , 2014 , 40, 10269-10274	5-1	8
528	Crystallization behaviour of Yb-doped and undoped YAG nanoceramics synthesized by microwave-assisted urea precipitation. <i>Ceramics International</i> , 2014 , 40, 11837-11844	5-1	6
527	Antisite defect in nonstoichiometric yttrium aluminum garnet: Experimental and first-principles calculation. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 783-790	6	9
526	Gelcasting of transparent YAG ceramics by a new gelling system. <i>Ceramics International</i> , 2014 , 40, 12745-12750	4-7	
525	Critical parameters to obtain Yb ³⁺ doped Lu ₂ O ₃ and ZnO transparent ceramics. <i>Ceramics International</i> , 2014 , 40, 1859-1864	5-1	13
524	Thermal lens measurements in Yb-doped YAG, LuAG, Lu ₂ O ₃ , Sc ₂ O ₃ ceramic lasers. 2014 , 497, 012013		1
523	Synthesis, Characterization, and Sintering of Yttrium Aluminum Garnet Powder Through Double Hydrolysis Approach. 2015 , 54, 450-454		1
522	Processing and Applications of Transparent Ceramics. 2015 , 1-27		1
521	Polymer-Doped Nano-Optical Sensors for Pharmaceutical Analysis. 2015 , 383-409		
520	Discussion on Polycrystals Over Single Crystals for Optical Devices. 2015 , 169-175		
519	Influence of Yb Concentration on the Optical Properties of CaF ₂ Transparent Ceramics Codoped with Er and Yb. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3905-3910	3-8	13
518	Glass-Ceramics and Solid-State Lighting. 2015 , 6, 356-363		27
517	. 2015 ,		3
516	Characterization and Curing Kinetics of Epoxy/Silica Nano-Hybrids. 2015 , 8, 7032-7040		4
515	Elucidating How Surface Functionalization of Multiwalled Carbon Nanotube Affects Nanostructured MWCNT/Titania Hybrid Materials. 2015 , 2015, 1-7		4

514	Definition, Systematik und Geschichte der Keramik: Einteilung der Keramik nach anwendungsorientierten Gesichtspunkten. 2015 , 67, 276-287		2
513	Recent progress in advanced optical materials based on gadolinium aluminate garnet (GdAlO). 2015 , 16, 014902		65
512	Optical Ceramics Based on Yttrium Oxide Doped with Tetravalent Ions. 2015 , 58, 107-116		4
511	An Approach in the Structural and Spectroscopic Analysis of Yb ³⁺ -Doped YAG Nano-ceramics by Conjugation of TEM-EDX and Optical Techniques. 2015 , 285-307		
510	Microstructure evolution of SiO ₂ , ZrO ₂ -doped Y ₃ Al ₅ O ₁₂ :Nd ³⁺ ceramics obtained by reactive sintering. <i>Ceramics International</i> , 2015 , 41, 11966-11974	5.1	14
509	Effect of air annealing on the color center in Yb:Y ₃ Al ₅ O ₁₂ transparent ceramics with MgO as sintering additive. <i>Optical Materials</i> , 2015 , 47, 292-296	3.3	17
508	Effect of Tm ₂ O ₃ doping on microstructure and optical properties of Tm:YAG ceramics. <i>Ceramics International</i> , 2015 , 41, 9051-9056	5.1	6
507	Diffusion-controlled solid-state reactive sintering of Nd:YAG transparent ceramics. <i>Ceramics International</i> , 2015 , 41, 11293-11300	5.1	17
506	Influence of non-stoichiometry on solid-state reactive sintering of YAG transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3127-3136	6	24
505	Fabrication and photoluminescence properties of Cr:YAG and Yb,Cr:YAG transparent ceramic. <i>Optical Materials</i> , 2015 , 49, 330-336	3.3	15
504	Continuous-wave and actively Q-switched resonantly dual-end-pumped Er : YAG ceramic laser emitting at 1.6 μ m. 2015 , 45, 1098-1100		1
503	Passively Mode-Locked Tm:YAG Ceramic Laser Based on Graphene. 2015 , 21, 50-55		9
502	Transparency through Structural Disorder: A New Concept for Innovative Transparent Ceramics. 2015 , 27, 508-514		35
501	Effect of carbonate precursor synthesis conditions on the formation of monodisperse Nd:YAG nanopowders. 2015 , 51, 142-151		3
500	Optimization of CeO ₂ as sintering aid for Tb ₃ Al ₅ O ₁₂ Faraday magneto-optical transparent ceramics. 2015 , 50, 2517-2521		18
499	High Transparency Nd: Y ₂ O ₃ Ceramics Prepared with La ₂ O ₃ and ZrO ₂ Additives. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 824-828	3.8	42
498	Thermally Induced Beam Distortions in Sesquioxide Laser Ceramics of m3 Crystal ClassâPart II. 2015 , 51, 1-8		5
497	Luminescence and thermal lensing characterization of singly Eu ³⁺ and Tm ³⁺ doped Y ₂ O ₃ transparent ceramics. 2015 , 161, 306-312		21

496	Fabrication of YAG transparent ceramics using carbonate precipitated yttria powder. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2379-2390	6	29
495	Phase transformations upon the synthesis of Y ₃ Al ₅ O ₁₂ :Nd. 2015 , 60, 127-136		6
494	Fabrication of Ce ³⁺ /Cr ³⁺ co-doped yttrium aluminium gallium garnet transparent ceramic phosphors with super long persistent luminescence. 2015 , 102, 47-50		75
493	Composite Nd:YAG/Cr ⁴⁺ :YAG transparent ceramics for thin disk lasers. <i>Ceramics International</i> , 2015 , 41, 13277-13280	5.1	17
492	Fabrication and optical property of highly transparent SrF ₂ ceramic. <i>Materials Letters</i> , 2015 , 159, 210-213.	3.3	22
491	Comparative investigation on Yb:YAG and Yb:LuAG transparent laser ceramics. <i>Ceramics International</i> , 2015 , 41, 14635-14640	5.1	13
490	Microstructure and optical properties of hot-pressed Er:CaF ₂ transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 760-765	5.7	34
489	Fabrication and optical studies of transparent Tm, Ho:YAG ceramics. <i>Optical Materials</i> , 2015 , 50, 52-58	3.3	2
488	A low viscosity slurry system for fabricating chromium doped yttrium aluminum garnet (Cr:YAG) transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3873-3878	6	20
487	Nd ³⁺ , Y ³⁺ -codoped SrF ₂ laser ceramics. <i>Optical Materials</i> , 2015 , 47, 108-111	3.3	23
486	Preparation of transparent neodymium-doped yttrium aluminate garnet (Nd:YAG) ceramics with the use of freeze granulation. <i>Optical Materials</i> , 2015 , 50, 40-46	3.3	9
485	Influence of surface roughness on laser-induced damage of Nd:YAG transparent ceramics. <i>Ceramics International</i> , 2015 , 41, 12535-12542	5.1	10
484	Investigation of the mechanisms of upconversion luminescence in Ho ³⁺ doped CaF ₂ crystals and ceramics upon excitation of 5I ₇ level. 2015 , 167, 120-125		24
483	Characterization of spray granulated Nd:YAG particles for transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 244-251	5.7	22
482	Effects of Sintering Aids on the Transparency and Conversion Efficiency of Cr ⁴⁺ Ions in Cr: YAG Transparent Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2459-2464	3.8	35
481	Laser ceramics with disordered crystalline structure. 2015 , 56, 150-157		6
480	Solvothermal synthesis of nanodispersed yttrium-aluminum garnet. 2015 , 41, 219-223		
479	Kinetics and formation mechanism of yttrium aluminum garnet from an amorphous phase prepared by the sol-gel method. <i>Ceramics International</i> , 2015 , 41, 10616-10623	5.1	10

478	Luminescence and scintillation enhancement of Y ₂ O ₃ :Tm transparent ceramic through post-fabrication thermal processing. 2015 , 165, 56-61		8
477	Introduction. 2015 , 1-28		1
476	Transparent Ceramic Materials. 2015 , 29-91		7
475	Sintering and Densification of Transparent Ceramics. 2015 , 467-517		
474	Laser Applications. 2015 , 581-674		
473	Systematic optimization of spray drying for YAG transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2391-2401	6	36
472	Ho:YAG transparent ceramics based on nanopowders produced by laser ablation method: Fabrication, optical properties, and laser performance. <i>Optical Materials</i> , 2015 , 50, 47-51	3-3	13
471	Dependence of spectroscopic and thermal properties on concentration and temperature for Yb:Y ₂ O ₃ transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2547-2554	6	31
470	Large size crystalline vs. co-sintered ceramic Yb(3+):YAG disk performance in diode pumped amplifiers. 2015 , 23, 570-9		10
469	Optical enhancement brought by doping Gd(3+) ions into Ce: YAG ceramics for indoor white light-emitting diodes. 2015 , 23, A292-8		30
468	Fabrication and thermal effects of highly transparent polycrystalline Nd:YAG ceramics. <i>Optical Materials</i> , 2015 , 49, 105-109	3-3	8
467	Development of polycrystalline yttrium aluminum garnet (YAG) fibers. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 4251-4258	6	21
466	High brightness continuous wave ceramic Yb:LuAG thin-disk laser. 2015 , 23, 19618-23		9
465	Continuous-wave laser performance of non-aqueous tape casting fabricated Yb:YAG ceramics. 2015 , 5, 330		14
464	Continuous-wave laser operation of Nd:LuAG ceramic with ⁴ F _{3/2} - ⁴ I _{11/2} transition. 2015 , 5, 611		12
463	Rapid thermo-optical quality assessment of laser gain media. 2015 , 5, 1389		2
462	Exploration of Yb ³⁺ :ScBO ₃ - a novel laser crystal in the rare-earth ion doped orthoborate system. 2015 , 5, 1822		5
461	Quantitative microstructural characterization of transparent YAG ceramics via microscopic image analysis using stereological relations. 2015 ,		

460	Nd:YAG transparent ceramics fabricated by direct cold isostatic pressing and vacuum sintering. <i>Optical Materials</i> , 2015 , 50, 25-31	3.3	21
459	Crystallization Behavior of Nd ₂ O ₃ Doped Na ₂ O-Ta ₂ O ₅ -SiO ₂ Laser Glass-ceramics. 2015 , 31, 1158-1160		5
458	Improved conversion efficiency of Cr ⁴⁺ ions in Cr: YAG transparent ceramics by optimization the particle sizes of sintering aids. <i>Optical Materials</i> , 2015 , 50, 11-14	3.3	22
457	Thermally induced beam distortions in laser ceramics at strong birefringence. 2015 , 32, 1084		1
456	Re ³⁺ : YAG laser ceramics: synthesis, optical properties and laser characteristics. 2015 , 45, 492-497		3
455	Diauxic growth and microstructure of grain interfaces in thermal bonding Yb:LuAG/LuAG ceramic. 2015 ,		
454	Systematic optimization of ball milling for highly transparent Yb:YAG ceramic using co-precipitated raw powders. <i>Journal of Alloys and Compounds</i> , 2015 , 653, 552-560	5.7	25
453	Preparation of MgF ₂ translucent ceramic by hot pressing sintering. 2015 , 30, 720-723		4
452	Gelcasting and reactive sintering of sheet-like YAG transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2015 , 652, 250-253	5.7	18
451	A homogeneous co-precipitation method to synthesize highly sinterability YAG powders for transparent ceramics. <i>Ceramics International</i> , 2015 , 41, 3283-3287	5.1	34
450	Influences of Solid Loadings on the Microstructures and the Optical Properties of Yb:YAG Ceramics. 2015 , 12, 418-425		7
449	Densification and microstructural evolution of yttria transparent ceramics: The effect of ball milling conditions. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1011-1019	6	19
448	Nanocomposites, Nanophotonics, Nanobiotechnology, and Applications. 2015 ,		3
447	The Effect of Sintering Temperature on Linear and Nonlinear Optical Properties of YAG Nanoceramics. 2015 , 147-164		3
446	The Influence of Cation Additives on Grain-Boundary Mobility in Yttrium Aluminum Garnet (YAG). <i>Journal of the American Ceramic Society</i> , 2015 , 98, 324-330	3.8	13
445	Nano-Structures for Optics and Photonics. 2015 ,		5
444	Environmentally Friendly Processing of Transparent Optical Ceramics. 2016 , 497-548		
443	Efficient laser operation based on transparent Nd:Lu ₂ O ₃ ceramic fabricated by Spark Plasma Sintering. 2016 , 24, 20571-9		15

442	Synthesis and Magnetic Characterization of SolGel-Derived Submicrometer NaGd(WO ₄) ₂ . 2016 , 13, 876-883		
441	Spectral and Laser Properties of Yb:LuAG Transparent Ceramics Fabricated by Tape Casting Method. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3267-3272	3.8	12
440	Multi-Functional Transparent Luminescent Configuration for Advanced Photovoltaics. 2016 , 6, 1502404		8
439	Wet-Route Synthesis and Characterization of Yb:CaF ₂ Optical Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1992-2000	3.8	31
438	Memory effect and cathodoluminescent properties of YAG:Nd ³⁺ nanoceramics. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016 , 120, 896-901	0.7	2
437	Pressure-induced nano-crystallization of silicate garnets from glass. 2016 , 7, 13753		36
436	Polishing Characteristics of Transparent Polycrystalline YAG Ceramics Using Magnetic Field-Assisted Finishing. 2016 ,		1
435	High-pressure circular dichroism spectroscopy up to 400 MPa using polycrystalline yttrium aluminum garnet (YAG) as pressure-resistant optical windows. 2016 , 6, 109726-109729		6
434	Fabrication and properties of transparent Tb:YAG fluorescent ceramics with different doping concentrations. <i>Ceramics International</i> , 2016 , 42, 13812-13818	5.1	14
433	Microstructure and optical properties of Nd: YAG transparent ceramics with the addition of Lu ³⁺ ions. 2016 , 115, 417-421		5
432	Preparation and Properties of Up-Conversion Luminescent NaYF ₄ :Yb ³⁺ , Er ³⁺ Ceramics. 2016 , 848, 262-271		
431	Characterization in activators' distribution and photoluminescence properties of Ce ³⁺ doped MgAlON transparent fluorescent ceramic. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2801-2805	6	5
430	Preparation of (Gd _{1-x} Yb _x) ₃ Al ₅ O ₁₂ transparent ceramics. 2016 , 20, 375-378		
429	Cation diffusion at the interface of composite YAG/Re: LuAG (Re = Nd or Yb) transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2555-2564	6	27
428	Stereology of dense polycrystalline materials from interface density and mean curvature integral density to Rayleigh distributions of grain sizes. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2319-2328	6	8
427	Fabrication, microstructure and magneto-optical properties of Tb ₃ Al ₅ O ₁₂ transparent ceramics. <i>Optical Materials</i> , 2016 , 62, 205-210	3.3	23
426	Effects of Nd Concentration on Microstructure and Optical Properties of Nd: CaF ₂ Transparent Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 4039-4044	3.8	17
425	Scintillation properties of Lu ₃ Al ₅ O ₁₂ co-doped with Nd and Ce. 2016 , 124, 536-540		8

424	Synthesis of Yb:Lu ₃ Al ₅ O ₁₂ nano powders with the reverse strike co-precipitation method: influence of decomposition of NH ₄ HCO ₃ . 2016 , 34, 901-907		7
423	Densification of zirconia doped yttria transparent ceramics using co-precipitated powders. <i>Ceramics International</i> , 2016 , 42, 10770-10778	5.1	12
422	Passive Q-switching of microchip lasers based on Ho:YAG ceramics. 2016 , 55, 4877-87		34
421	Scalable and Formable Tellurite-Based Transparent Ceramics for Near Infrared Applications. 2016 , 4, 1482-1486		29
420	Dephasing mechanisms of optical transitions in rare-earth-doped transparent ceramics. 2016 , 94,		11
419	Polishing Characteristics of Transparent Polycrystalline Yttrium Aluminum Garnet Ceramics Using Magnetic Field-Assisted Finishing. 2016 , 4,		9
418	Advanced Experimental Methods for Low-temperature Magnetotransport Measurement of Novel Materials. 2016 , e53506		1
417	Effect of the spark plasma sintering parameters, LiF additive, and Nd dopant on the microwave dielectric and optical properties of transparent YAG ceramics. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2767-2772	6	18
416	Sintering and grain growth control of high dense YIG. <i>Ceramics International</i> , 2016 , 42, 13996-14005	5.1	9
415	Effect of sintering temperature on the microstructure and transparency of Nd, Y:CaF ₂ ceramics. <i>Ceramics International</i> , 2016 , 42, 13285-13290	5.1	14
414	Formation of preferentially oriented Y ₃ Al ₅ O ₁₂ film on a reactive sapphire substrate: Phase and texture transitions from Y ₂ O ₃ . <i>Journal of the European Ceramic Society</i> , 2016 , 36, 663-670	6	3
413	Low temperature diode pumped active mirror Yb ³⁺ :YAG disk laser amplifier studies. 2016 , 24, 12651-60		4
412	Two-step thermal diffusional bonding of transparent Nd:YAG ceramics. <i>Materials Letters</i> , 2016 , 167, 81-84		8
411	Structural and luminescence effects of Ga co-doping on Ce-doped yttrium aluminate based phosphors. <i>Journal of Alloys and Compounds</i> , 2016 , 666, 447-453	5.7	11
410	Photoluminescence study of rare earth doped Yttrium aluminum garnet (YAG:RE (RE: Eu ³⁺ , Pr ³⁺ and Tb ³⁺)). 2016 , 127, 2004-2006		8
409	Yb ³⁺ doped CaF ₂ transparent ceramics by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 370-374	5.7	19
408	Luminescence of Terbium and Neodymium Ions in Yttrium Aluminum Garnet Xerogels on Porous Anodic Alumina. 2016 , 83, 121-125		5
407	Influence of hot isostatic pressing on sintering trajectory and optical properties of transparent Nd:YAG ceramics. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2035-2042	6	26

406	Low temperature synthesis of YAG:Ce ³⁺ phosphor by mechanical method. 2016 , 27, 886-890		5
405	Microstructure and optical properties of transparent Nd:GAGG ceramics prepared via solid-state reactive sintering. 2016 , 6, 610		1
404	Effects of hydroxy propyl cellulose (HPC) surfactant on fabrication, microstructure and optical properties of Ce ³⁺ :Lu ₃ Al ₅ O ₁₂ (Ce:LuAG) transparent ceramics. 2016 , 27, 610-617		3
403	Enhanced Transparency through Second Phase Crystallization in BaAl ₄ O ₇ Scintillating Ceramics. 2016 , 16, 386-395		13
402	Spark plasma sintering of transparent YAG ceramics assisted by the YAG→YAG phase transformation. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2153-2156	6	13
401	SrS:Ce and LuPO ₄ :Eu Sintered Ceramics: Old Phosphors with New Functionalities. 2016 , 5, R3078-R3088		16
400	High-temperature heat capacity of SPS-processed Y ₃ Al ₅ O ₁₂ (YAG) and Nd:YAG. 2016 , 93, 123-126		11
399	Fabrication, microstructure and laser performance of Nd ³⁺ -doped Lu ₃ Al ₅ O ₁₂ transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 655-661	6	12
398	Fabrication and properties of highly transparent Yb:LuAG ceramics. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 595-601	5-7	27
397	Luminescence of Yb-doped YAG: Divalent ytterbium ions. 2016 , 169, 151-155		13
396	Fabrication, optical properties and laser outputs of Nd:YAG ceramics based on laser ablated and pre-calcined powders. <i>Optical Materials</i> , 2017 , 71, 45-49	3-3	9
395	Yb:Y ₂ O ₃ transparent ceramics processed with hot isostatic pressing. <i>Optical Materials</i> , 2017 , 71, 117-120		22
394	Fabrication and luminescent properties of highly transparent Er ₃ Al ₅ O ₁₂ ceramics. <i>Optical Materials</i> , 2017 , 71, 86-89	3-3	6
393	Diode-double-face-pumped Nd:YAG ceramic slab laser amplifier with low depolarization loss. <i>Optical Materials</i> , 2017 , 71, 125-128	3-3	2
392	Flammability properties of polypropylene containing montmorillonite and some of silicon compounds. 2017 , 26, 1-7		19
391	Diode-pumped Nd:LuAG ceramic laser on 4 F _{3/2} - 4 I _{13/2} transition. <i>Optical Materials</i> , 2017 , 71, 121-124	3-3	3
390	Fabrication, microstructure and laser performance of composite Nd:YAG transparent ceramics. <i>Optical Materials</i> , 2017 , 71, 90-97	3-3	7
389	Effect of rotational speed of an electromagnetic stirrer on neodymium-doped yttrium aluminum garnet nanoparticle size during co-precipitation. 2017 , 176, 33-39		7

388	Si segregation and its role in reaching transparent YAG. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1689-1696	3.8	9
387	Localization of Yb ³⁺ , Er ³⁺ and Co ²⁺ Dopants in an Optical Glass Ceramics of MgAl ₂ O ₄ Spinel Nano-crystals Embedded in SiO ₂ Glass. 2017 , 319-341		
386	Development of optical grade (TbxY1â)3Al5O12 ceramics as Faraday rotator material. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4081-4087	3.8	47
385	Post-treatment of nanopowders-derived Nd:YAG transparent ceramics by hot isostatic pressing. <i>Ceramics International</i> , 2017 , 43, 10013-10019	5.1	19
384	Fabrication and spectroscopic properties of Yb/Er:YAG and Yb, Er:YAG transparent ceramics by co-precipitation synthesis route. 2017 , 188, 533-540		21
383	Optical characterizations on surface-polished polycrystalline YAG fibers. 2017 ,		1
382	Diode-pumped large-aperture Nd:YAG slab amplifier for high energy nanosecond pulse laser. 2017 , 400, 50-54		3
381	The effects of pH and excess Al ³⁺ content on the microstructure and phase evolution of YAG polycrystals. <i>Ceramics International</i> , 2017 , 43, 12563-12571	5.1	17
380	Comparison of commercial and synthesized CaF ₂ powders for preparing transparent ceramics. <i>Ceramics International</i> , 2017 , 43, 10403-10409	5.1	8
379	Toward Optical Ceramics Based on Cubic Yb ³⁺ Rare Earth Ion-Doped Mixed Molybdate-Tungstates: Part I - Structural Characterization. 2017 , 121, 13290-13302		7
378	Advanced Ceramic Materials. 2017 , 463-492		7
377	Influence of Yb ³⁺ doping on phase stability and thermophysical properties of (Y _{1-x} Yb _x) ₃ Al ₅ O ₁₂ under high temperature. <i>Ceramics International</i> , 2017 , 43, 7153-7158	5.1	13
376	Fabrication of Nd:Lu _{2.7} Gd _{0.3} Al ₅ O ₁₂ transparent ceramics by solid-state reactive sintering. <i>Optical Materials</i> , 2017 , 66, 422-427	3.3	4
375	Novel eco-friendly synthesis of neodymium doped zinc silicate phosphor based waste glass ceramic: structural, thermal and luminescence properties. 2017 , 28, 9395-9402		9
374	Experimental Study of a Diode-Pumped Nd:YAG Slab Laser Amplifier. 2017 , 38, 199-203		
373	Spectroscopic Properties and Continuous Wave Laser Performances at 1064 nm of Nd ³⁺ : LuAG Transparent Ceramic. 2017 , 9, 1-14		1
372	Effect of Yb doping concentration on crystallization kinetics in yttrium aluminum garnet nano-powders. <i>Ceramics International</i> , 2017 , 43, 7776-7783	5.1	3
371	Preparation of a Ø0 mm Nd:YAG transparent ceramic disk. <i>Ceramics International</i> , 2017 , 43, 5334-5337	5.1	8

370	Influence of nanopowders sedimentation on characteristics of Yb-doped Y2O3 transparent ceramics. 2017 ,		1
369	Generation of 70 fs broadband pulses in a hybrid nonlinear amplification system with mode-locked Yb:YAG ceramic oscillator. 2017 , 19, 125501		1
368	Demonstration and CW laser performances of composite YAG/Nd:LuAG/YAG transparent laser ceramic. <i>Journal of Alloys and Compounds</i> , 2017 , 727, 912-918	5-7	10
367	Synthesis and sintering of submicron Nd:YAG particles prepared from carbonate precursors. 2017 , 53, 874-882		16
366	Adjustable multicolor up-energy conversion in light-luminescence in Tb/Tm/Yb co-doped oxyfluoride glass-ceramics containing BaLaF nanocrystals. 2017 , 7, 6518		8
365	Fabrication of Tb3Al5O12 transparent ceramics using co-precipitated nanopowders. <i>Optical Materials</i> , 2017 , 73, 38-44	3-3	16
364	Luminescence Anisotropy and Thermal Effect of Magnetic and Electric Dipole Transitions of Cr Ions in Yb:YAG Transparent Ceramic. 2017 , 9, 43790-43798		11
363	High-efficiency lasing and spectroscopy of domestic 1%Nd:YAG and 1%Ho:YAG ceramics. 2017 , 793, 012030		1
362	Preparation of Finely Crystalline Yttrium-Aluminum Garnet in Solar Furnaces. 2017 , 58, 179-182		
361	Preparation of YAG nanopowder by different routes and evaluation of their characteristics including transparency after sintering. 2017 , 53, 751-760		11
360	Thermal conductivity measurements of Yb:CaF2 transparent ceramics using the 3 ω method. <i>Journal of Applied Physics</i> , 2017 , 121, 245108	2-5	12
359	Permeation and optical properties of YAG:Er3+ fiber membrane scintillators prepared by novel sol-gel/electrospinning method. 2017 , 83, 35-43		10
358	Ce-Doped garnet phosphors: composition modification, luminescence properties and applications. 2017 , 46, 275-299		611
357	Synthesis of Yb:YAG Ceramics Without Sintering Additives and their Performance. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 26-30	3-8	33
356	Toward vacuum sintering of YAG transparent ceramic using divalent dopant as sintering aids: Investigation of microstructural evolution and optical property. <i>Ceramics International</i> , 2017 , 43, 3140-3146	5-16	46
355	Low-level sintering aids for highly transparent Yb:Y2O3 ceramics. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1414-1419	5-7	10
354	Solubility limit of Si in YAG at 1700 °C in vacuum. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 243-248		12
353	Effect of BaF2 powder addition on the synthesis of YAG phosphor by mechanical method. 2017 , 28, 50-54		6

352	Cubic Yb ³⁺ -activated Y ₆ MoO ₁₂ micro-powder as optical material operating in NIR region. <i>Optical Materials</i> , 2017 , 63, 3-12	3-3	11
351	The effect of powders homogenisation conditions on the synthesis of yttrium aluminium garnet (YAG) by a solid-state reaction. <i>Ceramics International</i> , 2017 , 43, 4029-4036	5-1	6
350	YAG:Dy as Based single white light emitting phosphor produced by solution combustion synthesis. 2017 , 183, 251-258		13
349	Synthesis and optical characterizations of Nd, Y: CaF ₂ transparent ceramics. <i>Optical Materials</i> , 2017 , 71, 35-40	3-3	17
348	. 2017 ,		
347	Ceramic Yb:LuAG thin disk lasers with high efficiency and high power operation. 2017 ,		
346	Third-order-nonlinear effects in single crystals with arbitrary orientation and in ceramics. 2017 , 25, 27968		2
345	Diode-pumped continuous-wave and Q-switched Tm:Y ₂ O ₃ ceramic laser around 2050 nm. 2017 , 7, 296		30
344	Physical and optical properties of Ce:YAG nanophosphors and transparent ceramics and observation of novel luminescence phenomenon. 2017 , 7, 1055		23
343	Lasing of surface-polished polycrystalline Ho: YAG (yttrium aluminum garnet) fiber. 2017 , 25, 6725-6731		10
342	Variation of Structure and Photoluminescence Properties of Ce Doped MgAlON Transparent Ceramics with Different Doping Content. 2017 , 10,		0
341	The Synthesis of YAG:Ce ³⁺ Phosphor by Mechanical Method. 2017 , 54, 32-36		4
340	Constitution of Stable and Metastable Quasi Binary Phase Diagrams for TmFeO ₃ -ScFeO ₃ System by Undercooling Solidification Using the Containerless Technique. 2017 , 81, 522-526		0
339	A comparative study of synthesis and spark plasma sintering of YAG nano powders by different co-precipitation methods. <i>Ceramics International</i> , 2018 , 44, 10035-10046	5-1	18
338	Effect of Y ³⁺ ion doping on the microstructure, transmittance and thermal properties of CaF ₂ transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 359-365	5-7	14
337	Theoretical study of optical pump process in solid gain medium based on four-energy-level model. 2018 , 20, 045401		
336	Influence of (Nd+Y)/Al ratio on sintering behavior and optical features of Y _{3-x} Nd _x Al ₅ O ₁₂ ceramics for laser applications. <i>Optical Materials</i> , 2018 , 77, 264-272	3-3	5
335	Origin and Future of Polycrystalline Ceramic Lasers. 2018 , 24, 1-7		8

334	First principles calculations of the structural, electronic and optical properties of the mixed fluorides $Sr_xCd_{1-x}F_2$. 2018 , 56, 1033-1044		1
333	Room-temperature sintered metal-organic framework nanocrystals: A new type of optical ceramics. 2018 , 61, 424-428		13
332	Effect of flux powder addition on the synthesis of YAG phosphor by mechanical method. 2018 , 29, 457-461		5
331	Strong photoluminescence emission at low dopant amount in YAG:Ce and YAG:Eu phosphors. 2018 , 100, 413-419		16
330	Fabrication and spectral properties of Nd, La: CaF ₂ transparent ceramics. <i>Optical Materials</i> , 2018 , 76, 111-116	3-3	11
329	Nanometer-scale characteristics of polycrystalline YAG ceramic polishing. 2018 , 67, 349-352		19
328	The preparation of Yttrium Aluminosilicate (YAS) Glass Fiber with heavy doping of Tm ³⁺ from Polycrystalline YAG ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4627-4633	3.8	13
327	Effect of ammonium carbonate to metal ions molar ratio on synthesis and sintering of Nd:YAG nanopowders. <i>Optical Materials</i> , 2018 , 80, 127-137	3-3	5
326	High-Power Ho-Doped Sesquioxide Ceramic Laser In-Band Pumped by a Tm-Doped All-Fiber MOPA. 2018 , 10, 1-7		4
325	Influence of solid loading on the rheological, porosity distribution, optical and the microstructural properties of YAG transparent ceramic. <i>Ceramics International</i> , 2018 , 44, 12098-12105	5-1	12
324	The effect of Gd ³⁺ ions on fabrication and luminescence properties of Nd ³⁺ -doped (Ca _{1-x} Gd _x)F _{2+x} transparent ceramics. 2018 , 102, 304-310		10
323	Pressureless glass crystallization of transparent yttrium aluminum garnet-based nanoceramics. 2018 , 9, 1175		82
322	Preparation and characterization of highly transparent Nd:YAG/YAG composite ceramics. <i>Optical Materials</i> , 2018 , 79, 63-71	3-3	10
321	Isobam assisted slurry optimization and gelcasting of transparent YAG ceramics. <i>Ceramics International</i> , 2018 , 44, 1699-1704	5-1	22
320	Structural and optical investigations of Nd ³⁺ -doped Y ₂ O ₃ -SiO ₂ nanopowder. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 450-457	5-7	12
319	Spark plasma sintering and decomposition of the Y ₃ NbO ₇ :Eu phase. 2018 , 53, 1731-1742		4
318	Fabrication and laser oscillation of Yb:Sc ₂ O ₃ transparent ceramics from co-precipitated nano-powders. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1632-1638	6	18
317	Structural Engineering in Plasmon Nanolasers. 2018 , 118, 2865-2881		92

316	Transparent ultrafine Yb ³⁺ :Y ₂ O ₃ laser ceramics fabricated by spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 694-702	3.8	24
315	Single CaO accelerated densification and microstructure control of highly transparent YAG ceramic. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 703-712	3.8	31
314	MgO assisted densification of highly transparent YAG ceramics and their microstructural evolution. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 687-693	6	41
313	Control of interface shape during high melting sesquioxide crystal growth by HEM technique. 2018 , 483, 175-182		5
312	The roles of cation additives on the color center and optical properties of Yb:YAG transparent ceramic. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1957-1965	6	20
311	Mechanical Properties of Metal Oxide Aerogels. 2018 , 30, 145-152		33
310	Nano-optical Biosensors for Assessment of Food Contaminants. 2018 , 1-23		3
309	Preparation and Properties of Cr,Nd:YAG Transparent Ceramics by Slip Casting. 2018 , 281, 723-728		1
308	Highly efficient CW operation of a diode pumped Nd:Y ₂ O ₃ ceramic laser. 2018 , 8, 3518		7
307	16 W single-frequency laser output from an Er:YAG ceramic nonplanar ring oscillator. 2018 , 15, 125803		2
306	Overview of ytterbium based transparent ceramics for diode pumped high energy solid-state lasers. 2018 , 6,		12
305	Chapter 17 Research on the Yb ³⁺ Ion Activated Cubic Molybdates and Molybdate-Tungstates for Optical Transparent Ceramics. 2018 , 315-354		5
304	Constitution of Stable and Metastable Phase Diagrams for TmFeO ₃ -ScFeO ₃ System by Undercooling Solidification Using the Containerless Technique. 2018 , 59, 469-474		2
303	Submicron-grained Yb:Lu ₂ O ₃ transparent ceramics with lasing quality. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 2587	3.8	3
302	Quantum Nano-Photonics. 2018 ,		
301	Blue emission of Co ²⁺ in K ₂ ZnP ₂ O ₇ phosphors. 2018 , 97, 39-43		3
300	Synthesis of yttrium aluminum garnet nanoparticles in confined environment III: Cerium doping effect. <i>Optical Materials</i> , 2018 , 85, 275-280	3.3	6
299	Ammonium citrate assisted surface modification and gel casting of YAG transparent ceramics. <i>Ceramics International</i> , 2018 , 44, 21921-21927	5.1	12

298	Synthesis and characterization of monodisperse yttrium aluminum garnet (YAG) micro-crystals with rhombic dodecahedron. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 537-547	5.7	3
297	Fabrication and luminescence properties of U:YAG transparent ceramic. <i>Optical Materials</i> , 2018 , 82, 56-59	3.3	7
296	Assessment of conversion efficiency of Cr ⁴⁺ ions by aliovalent cation additives in Cr:YAG ceramic for edge cladding. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5098-5109	3.8	10
295	Development of optical grade polycrystalline YIG ceramics for faraday rotator. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 5120-5126	3.8	27
294	Lasing characteristics of refractive-index-matched composite Y3Al5O12 rods employing transparent ceramics for solar-pumped lasers. 2018 , 57, 042701		16
293	Pressureless reaction sintering and hot isostatic pressing of transparent MgAlON ceramic with high strength. <i>Ceramics International</i> , 2018 , 44, 17383-17390	5.1	10
292	Optical and mechanical properties of transparent YAG ceramic produced by reactive spark plasma sintering (RSPS). <i>Materials Research Express</i> , 2018 , 5, 095206	1.7	8
291	Resonantly pumped eye-safe Er:YAG SPS-HIP ceramic laser. 2018 , 26, 3435-3442		13
290	Synthesis and characterization of structural and optical properties of Ce, U codoped YAG transparent ceramics. 2018 , 8, 1274		7
289	Fabrication and performance assessment of coprecipitation-based YAG:Ce nanopowders for white LEDs. 2018 , 199, 24-30		5
288	Composite Laser Ceramics by Advanced Bonding Technology. 2018 , 11,		8
287	Fabrication and Sintering Behavior of Er:SrF ₆ Transparent Ceramics using Chemically Derived Powder. 2018 , 11,		6
286	Comparison of synthesis and spark plasma sintering of YAG nano particles by variation of pH and precipitator agent. <i>Ceramics International</i> , 2018 , 44, 23215-23225	5.1	3
285	Influence of ammonium sulfate on YAG nanopowders and Yb:YAG ceramics synthesized by a novel homogeneous co-precipitation method. 2018 , 36, 981-985		5
284	Dielectric and microstructural properties of YAG:Dy ³⁺ ceramics. 2018 , 36, 1310-1318		3
283	Fabrication, photoluminescence and terahertz absorption properties of Yb:YAG transparent ceramics with various Yb dopant concentrations. <i>Optical Materials</i> , 2018 , 85, 106-112	3.3	8
282	Yttria nanopowders with low degree of aggregation by a spray precipitation method. <i>Ceramics International</i> , 2018 , 44, 20472-20477	5.1	7
281	Nucleation and growth of Y ₂ O ₃ nanoparticles in a RF-ICTP reactor: a discrete sectional study based on CFD simulation supported with experiments. 2018 , 51, 255202		5

280	The phase, microstructure evolution and the Nd ³⁺ function in the fabrication process of LuAG transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4043-4049	6	3
279	Transparent Polycrystalline Magnesium Aluminate Spinel Fabricated by Spark Plasma Sintering. 2018 , 30, e1706283		24
278	Fabrication and microstructure characterizations of transparent Er:CaF ₂ composite ceramic. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 285-293	3.8	8
277	Influence of Cr doping on the phase composition of Cr,Ca:YAG ceramics by solid state reaction sintering. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 2104-2115	3.8	19
276	Fabrication and properties of transparent Nd-doped BaF ₂ ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 178-184	3.8	13
275	Synthetic Method for Preparing High-Performance Europium-Doped Up-Conversion Ceramic Material Precursor. 2019 , 953, 101-112		
274	Thermal destruction of coprecipitated hydroxides of indium and dysprosium. 2019 , 138, 1871-1877		0
273	Effect of SiO ₂ addition on structural and optical properties of Yb:Lu ₃ Al ₅ O ₁₂ transparent ceramics based on laser ablated nanopowders. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 717-725	5.7	8
272	Fabrication and microstructural characterizations of lasing grade Nd:Y ₂ O ₃ ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7462-7468	3.8	8
271	Evaluation of YAG:Ce ³⁺ Phosphor Properties Synthesized by Mechanical Method. 2019 , 56, 142-147		
270	Superfinishing of polycrystalline YAG ceramic by nanodiamond slurry. 2019 , 68, 361-364		11
269	Improvement in the transmittance of Lu ³⁺ ion doped Nd: YAG ceramics. <i>Materials Research Express</i> , 2019 , 6, 0950a3	1.7	1
268	Solid-state reactive sintering of La _{2-x} GdxZr ₂ O ₇ transparent ceramics and their optical properties. <i>Ceramics International</i> , 2019 , 45, 20078-20083	5.1	8
267	Transparent non-cubic laser ceramics with fine microstructure. 2019 , 9, 10300		18
266	Microstructural and optical properties of Pr ³⁺ :(Ca _{0.97} Gd _{0.03})F ₂ .03 transparent ceramics sintered by vacuum hot-pressing method. 2019 , 214, 116575		2
265	Effect of citric acid on the microstructure and optical properties of transparent YAG ceramics by reactive-SPS. <i>Materials Research Express</i> , 2019 , 6, 105099	1.7	
264	Third-order nonlinear optical response of Yb:YAG ceramics under femtosecond laser irradiation. <i>Optical Materials</i> , 2019 , 98, 109435	3.3	1
263	References. 2019 , 381-413		

262 . 2019,

17

261 Polishing characteristics of Nd:YAG ceramics with various Nd-dopant concentrations. **2019**, 27, 93-101

2

260 Tu1150 α -Insulin Promotes the Invasion and Migration of Pancreatic Cancer Through the Emt Pathway. **2019**, 156, S-964

259 Magneto-Optical and Thermo-Optical Properties of Ce, Pr, and Ho Doped TAG Ceramics. **2019**, 55, 1-8

4

258 Emission properties of Nd³⁺:Y₂Si₂O₇ nanocrystals under high excitation power density. *Optical Materials*, **2019**, 96, 109257

3-3 6

257 Effects of Sr²⁺ content on microstructure and spectroscopic properties of Nd³⁺ doped Ca_{1-x}Sr_xF₂ transparent ceramics. *Journal of Alloys and Compounds*, **2019**, 811, 152046

5-7 7

256 YAG: Ce³⁺, Mn²⁺ transparent ceramics prepared by gel-casting for warm white LEDs. **2019**, 213, 421-426

28

255 Fabrication and microstructure development of Yb:YAG transparent ceramics from co-precipitated powders without additives. *Journal of the American Ceramic Society*, **2019**, 102, 7154-7167

3-8 10

254 Fabrication, microstructure and optical properties of large-sized Nd:YAG and composite Yb:YAG transparent ceramic slabs. *Ceramics International*, **2019**, 45, 19340-19344

5-1 9

253 Effect of air annealing on the optical properties and laser performance of Yb:YAG transparent ceramics. *Optical Materials*, **2019**, 95, 109203

3-3 6

252 Electric-field-induced composite color centers formation and Yb ions valence state change in spark plasma sintered Yb:YAG transparent ceramics. *Optical Materials*, **2019**, 95, 109192

3-3 2

251 Transparent YAG material prepared from nano-powder with core-shell morphology. *Ceramics International*, **2019**, 45, 19141-19147

5-1

250 Influence of Yb and Si on the fabrication of Yb:YAG transparent ceramics using spherical Y₂O₃ powders. *Ceramics International*, **2019**, 45, 17354-17362

5-1 4

249 Effect of Synthesis Conditions on the Luminescence of Europium-Containing Materials Based on Yttria and Yttrium Oxyfluorides. **2019**, 55, 64-76

2

248 The Effects of Sintering Atmosphere on the Fabrication of Transparent Polycrystalline YAG Ceramics. **2019**, 1152, 53-63

1

247 The role of Ca²⁺ ions in the formation of high optical quality Cr⁴⁺, Ca:YAG ceramics. *Journal of the European Ceramic Society*, **2019**, 39, 3344-3352

6 19

246 Effect of yttrium variation on phase, transparency, and micro-structure of neodymium doped yttrium aluminum garnet ceramic. **2019**, 167, 61-65

1

245 Highly-doped Nd:YAG ceramics fabricated by conventional and high pressure SPS. *Ceramics International*, **2019**, 45, 12279-12284

5-1 12

244	Crystal growth, optical properties and laser performance of new mixed Nd ³⁺ doped Gd _{0.1} Y _{0.9} AlO ₃ crystal. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 664-669	5.7	4
243	Aqueous-based tape casting of multilayer transparent Nd:YAG ceramics. <i>Optical Materials</i> , 2019 , 89, 316-321	3.3	3
242	Total Performance of Magneto-Optical Ceramics with a Bixbyite Structure. 2019 , 12,		19
241	Rare earth incorporated electrode materials for advanced energy storage. 2019 , 390, 32-49		67
240	Influence of synthesis route and grain size on structural and spectroscopic properties of cubic Nd ³⁺ -doped Y ₆ MoO ₁₂ nano and micro-powders as optical materials. <i>Optical Materials</i> , 2019 , 90, 300-314	3.3	7
239	Effect of ZnO and TiO ₂ doping on the sintering behavior of Y ₂ O ₃ ceramics. <i>Ceramics International</i> , 2019 , 45, 13315-13318	5.1	4
238	Fabrication and laser performance of planar waveguide LuAG/Yb:LuAG/LuAG ceramics. <i>Optical Materials</i> , 2019 , 89, 149-156	3.3	5
237	Application of Judd-Ofelt theory in analyzing Nd ³⁺ doped SrF ₂ and CaF ₂ transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2446-2452	6	15
236	Continuous-wave laser performance of 10 at% Yb:YSAG transparent ceramics. <i>Materials Research Express</i> , 2019 , 6, 126211	1.7	1
235	Effect of the sintering temperature on the microstructure and optical properties of YAG:Cr,Mg ceramics. <i>Optical Materials</i> , 2019 , 98, 109505	3.3	6
234	Fabrication and kW-level MOPA laser output of planar waveguide YAG/Yb:YAG/YAG ceramic slab. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1758-1767	3.8	16
233	Fabrication of Nd:YAG transparent ceramics using powders synthesized by citrate sol-gel method. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 751-759	5.7	19
232	Fabrication and properties of 10 at.% Yb:Y ₃ Sc _{1.5} Al _{3.5} O ₁₂ transparent ceramics. <i>Optical Materials</i> , 2019 , 88, 339-344	3.3	8
231	Laser sintering and photoluminescence study of Tb-doped yttrium aluminum garnet ceramics. <i>Ceramics International</i> , 2019 , 45, 3797-3802	5.1	7
230	Influence of the ceramic powder morphology and forming conditions on the optical transmittance of YAG:Yb ceramics. <i>Ceramics International</i> , 2019 , 45, 4418-4423	5.1	17
229	Structure-transmittance relationship in transparent ceramics. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 260-285	5.7	19
228	Fabrication and mid-infrared property of Er:CaF ₂ transparent ceramics. 2019 , 111, 158-164		5
227	Characterization of physico- mechanical properties of Alumina/YAG/Ceria composites. <i>Ceramics International</i> , 2019 , 45, 1634-1640	5.1	2

226	Effect of calcium oxide doping on the microstructure and optical properties of YAG transparent ceramics. <i>Materials Research Express</i> , 2019 , 6, 036203	1.7	7
225	Thermal expansion of calcium cobalt vanadate garnet, Ca _{2.5} Co ₂ V ₃ O ₁₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 779, 863-869	5.7	1
224	Novel synthesis of low-agglomerated YAG:Yb ceramic nanopowders by two-stage precipitation with the use of hexamine. <i>Ceramics International</i> , 2019 , 45, 1273-1282	5.1	11
223	Materials development and potential applications of transparent ceramics: A review. 2020 , 139, 100518		89
222	Roles of zirconia-doping in the sintering process of high quality Tb ₃ Al ₅ O ₁₂ magneto-optic ceramics. 2020 , 176, 83-87		2
221	Fabrication, mechanical and optical performance of AM-gel casted YAG transparent ceramics. <i>Ceramics International</i> , 2020 , 46, 2365-2372	5.1	10
220	Influences of the Sc ³⁺ content on the microstructure and optical properties of 10 at.% Yb:Y ₃ Sc _x Al _{5-x} O ₁₂ laser ceramics. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152637	5.7	7
219	Synthesis and luminescence characterization of Pr ³⁺ , Gd ³⁺ co-doped SrF ₂ transparent ceramics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 279-286	3.8	14
218	Fabrication and scintillation properties of Pr:Lu ₃ Al ₅ O ₁₂ transparent ceramics from co-precipitated nanopowders. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152885	5.7	3
217	Effect of MgO doping on the structure and optical properties of YAG transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 861-866	6	14
216	The effects of ball milling time on the rheological, optical, and microstructural properties of YAG transparent ceramics. 2020 , 17, 1119-1127		1
215	Fabrication of Y ₆ MoO ₁₂ molybdate ceramics: From synthesis of cubic nano-powder to sintering. <i>Ceramics International</i> , 2020 , 46, 4619-4633	5.1	2
214	Ultraviolet emission transparent Gd:YAG ceramics processed by solid-state reaction spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 839-848	3.8	9
213	Vacuum sintering and optical properties of Gd _{2-x} Nd _x Zr ₂ O ₇ transparent ceramics using combustion synthesized nanopowders. <i>Optical Materials</i> , 2020 , 100, 109622	3.3	6
212	Photoluminescence of Doped YAG Transparent Ceramics Fabricated by Spark Plasma Sintering. 2020 , 60, 550-556		2
211	Light scattering in monodisperse systems from suspensions to transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1522-1531	6	8
210	Fabrication and spectral properties of Nd:S-FAP transparent ceramics by simple route of HP method. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153171	5.7	4
209	Fabrication, microstructure and optical properties of Yb:Lu _x Y _{3-x} Al ₅ O ₁₂ transparent ceramics. <i>Optical Materials</i> , 2020 , 110, 110478	3.3	2

208	Microstructure evolution in two-step-sintering process toward transparent Ce:(Y,Gd) ₃ (Ga,Al) ₅ O ₁₂ scintillation ceramics. <i>Journal of Alloys and Compounds</i> , 2020 , 846, 156377	5.7	3
207	Microstructure, luminescence, and dielectric properties of microwave-sintered Ce:LuAG nano-ceramics. <i>Ceramics International</i> , 2020 , 46, 27092-27098	5.1	3
206	3D printed transparent ceramic YAG laser rods: Matching the core-clad refractive index. <i>Optical Materials</i> , 2020 , 107, 110121	3.3	15
205	Influence of calcination temperature on the photoluminescence spectral response of Sm-doped YAG nanocrystals as red-emitting phosphor. 2020 , 218, 165106		3
204	Coordinating microwave dielectric and optical properties of transparent yttrium aluminum garnet ceramics by regulating spark plasma sintering parameters. 2020 , 260, 114628		3
203	. 2020 ,		3
202	Leveraging Anisotropy for Coupled Optimization of Thermal Transport and Light Transmission in Micro-Structured Materials for High-Power Laser Applications. 2020 , 3, 2000036		3
201	Upconversion emission studies of single particles. 2020 , 35, 100956		20
200	Similarity of Precursors in Solid-State Synthesis as Text-Mined from Scientific Literature. 2020 , 32, 7861-7873		13
199	Optimizing co-precipitated Nd:YAG nanopowders for transparent ceramics. <i>Optical Materials</i> , 2020 , 108, 110427	3.3	5
198	Dried droplet calibration approach for the analysis of inorganic nonmetallic materials by laser ablation-inductively coupled plasma-mass spectrometry. 2020 , 35, 1441-1449		3
197	References. 2020 , 329-356		
196	Effect of Yb concentration on the microstructures, spectra, and laser performance of Yb: CaF ₂ transparent ceramics. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5787-5795	3.8	7
195	Formation of Powdered Materials Exposed to Pulsed Laser Radiation in Combination with an Electric Arc Discharge. 2020 , 84, 330-335		1
194	Near-infrared luminescent properties of Ln:LaGdZr ₂ O ₇ (Ln = Nd, Yb) transparent ceramics for solid-state laser applications. <i>Ceramics International</i> , 2020 , 46, 22270-22275	5.1	9
193	Robust Wavelength-Converting and Lasing Media from Wafer-Scale Inorganic Perovskites Enabled by a Protective Surface Layer. 2020 , 124, 8341-8346		2
192	Fabrication and spectral properties of Ho-doped calcium fluoride transparent ceramics. 2020 , 223, 117188		10
191	From supramolecular to solid state chemistry: crystal engineering of luminescent materials by trapping molecular clusters in an aluminium-based host matrix. 2020 , 7, 2399-2406		8

190	High performance of La-doped Y2O3 transparent ceramics. 2020 , 9, 493-502		8
189	DFT+U study of the structural, electronic and optical properties of M1-xPrxF2+x (M= Ca, Ba, x=0.25). 2020 , 319, 113995		
188	Viscoelastic behaviors and drying kinetics of different aqueous gelcasting systems for large Nd:YAG laser ceramics rods. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3513-3527	3.8	6
187	Fabrication of Nd:YAG transparent ceramics from co-precipitated powders by vacuum pre-sintering and HIP post-treatment. <i>Optical Materials</i> , 2020 , 101, 109728	3.3	6
186	Co-precipitation synthesis of highly sinterable Yb:Sr5(PO4)3F powder for transparent ceramics. <i>Ceramics International</i> , 2020 , 46, 14391-14397	5.1	2
185	The effect of yttrium nitrate addition on the densification behaviour of Y2O3 ceramics during the cold sintering process. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3208-3214	6	1
184	Influence of CaO/MgO ratio on Cr3+ to Cr4+ conversion efficiency in YAG:Cr4+ ceramic saturable absorbers. <i>Optical Materials</i> , 2020 , 100, 109671	3.3	4
183	Advanced spinel ceramics with highest VUV-vis transparency. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2432-2438	6	3
182	Microstructure and properties of MgAl2O4 transparent ceramics fabricated by hot isostatic pressing. <i>Optical Materials</i> , 2020 , 104, 109938	3.3	9
181	Fabrication of laser grade Yb: Y2O3 transparent ceramics with ZrO2 additive through hot isostatic pressing. 2020 , 24, 101185		4
180	Effect of agglomeration state of starting powder on fabrication of Tm, Ho co-doped LuAG transparent ceramics. <i>Optical Materials</i> , 2020 , 103, 109883	3.3	2
179	Liquid phase synthesis and sintering of Y3NbO7. <i>Ceramics International</i> , 2020 , 46, 26361-26367	5.1	1
178	First-principles study of electronic structure and optical properties of Er:Lu2O3. 2021 , 39, 453-459		5
177	Vacuum sintering of highly transparent La1+xYb1+yZr2O7 ceramics with excess La and Yb contents. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2106-2113	6	2
176	Fabrication and optical characterizations of hot-pressed transparent SrF2/Nd: SrF2/SrF2 composite ceramic. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 768-774	6	4
175	The scandium impact on the sintering of YSAG:Yb ceramics with high optical transmittance. <i>Ceramics International</i> , 2021 , 47, 1772-1784	5.1	7
174	Effects of MgO doping on microwave dielectric properties of yttrium aluminum garnet ceramics. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 158139	5.7	8
173	Modeling light scattering by spherical pores for calculating the transmittance of transparent ceramics âAll you need to know. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2169-2192	6	6

172	Densification and luminescence properties of Nd:YAG transparent ceramics. 2021 , 228, 166161		1
171	Comparative study of Yb:Lu ₃ Al ₅ O ₁₂ and Yb:Lu ₂ O ₃ laser ceramics produced from laser-ablated nanopowders. <i>Ceramics International</i> , 2021 , 47, 6633-6642	5.1	8
170	The study of composition, structure and cathodoluminescent features of YAG:Eu ³⁺ nanoceramics. Excitation capture efficiency of Eu ³⁺ energy levels. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 157731	5.7	2
169	Development and characterization of polycrystalline transparent CsI plate for X-ray radiography applications. <i>Ceramics International</i> , 2021 , 47, 2187-2193	5.1	1
168	Light scattering by pores in YAG transparent ceramics simulated by DDA model. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 256-262	3.8	0
167	Nanostructured YAG and Er:YAG Powders Synthesized via Glycine Nitrate Technique for Optically Transparent Ceramics. 2021 , 193, 126-141		2
166	Optical Glass: Challenges From Optical Design. 2021 , 658-675		
165	Tunable-spectrum Mn ²⁺ doped garnet transparent ceramics for high-color rendering laser lighting. 2021 , 18, 716-723		0
164	Effect of Ca ²⁺ and Mg ²⁺ ions on the sintering and spectroscopic properties of Cr-doped yttrium aluminum garnet ceramics. 2021 , 18, 697-704		1
163	Pressure-assisted sintering and characterization of Nd:YAG ceramic lasers. 2021 , 11, 1512		5
162	Fabrication and Characterizations of Yb:YAG Transparent Ceramics Using Alcohol-water Co-precipitation Method. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021 , 36, 217	1	2
161	J-O study of a novel Dy-doped Lu ₃ Al ₅ O ₁₂ transparent ceramic for potential application in yellow laser generation. 2021 , 231, 117763		2
160	Improving the luminescence properties of YAG:Ce ³⁺ phosphors by co-doping Sr ²⁺ ions. 2021 , 231, 166363		1
159	High-Quality Translucent Alumina Ceramic Through Digital Light Processing Stereolithography Method. 2021 , 23, 2001475		1
158	Molten salt synthesis of neodymium oxyfluoride with tetragonal structure. <i>Ceramics International</i> , 2021 , 47, 11432-11437	5.1	0
157	Introduction. 2021 , 1-31		
156	From the Laser Plume to the Laser Ceramics.		
155	Luminescence Properties of Lu ³⁺ doped Nd: YAG Transparent Ceramics. 2021 , 1907, 012010		0

154	Quantitative relationship between microstructure and mechanical properties in Nd: YAG transparent ceramics. <i>Ceramics International</i> , 2021 , 47, 12144-12152	5.1	1
153	Passive Application/Window, Dome, and Armor. 2021 , 275-348		0
152	Material jet printing of transparent ceramic Yb:YAG planar waveguides. 2021 , 46, 2433-2436		4
151	Nonlinear Optical Properties of Emerging Nano- and Microcrystalline Materials. 2021 , 2100216		12
150	Magneto-Optic Transparent Ceramics. 2021 , 143-185		0
149	Ceramic Laser/Solid-State Laser. 2021 , 33-72		1
148	IR transmission prediction, processing, and characterization of dense La ₂ Ce ₂ O ₇ . <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5659-5670	3.8	1
147	Study of synthesis dynamics of ceramic materials nanopowders at different processing modes by ultrafast laser pulses. 2021 , 1942, 012024		
146	Optical Fluoride Nanoceramics. 2021 , 57, 555-578		6
145	A novel route to fabricate Yb:YAG ceramic fiber and its optical performance. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 4598-4608	6	2
144	New thermally stimulated emission spectrometer for the detection of ultra-shallow low-density traps. <i>Journal of Applied Physics</i> , 2021 , 130, 033104	2.5	0
143	Optical properties and laser performance of Nd:Y ₂ O ₃ ceramics with fine-grained microstructure. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 4419-4423	6	1
142	Fabrication and creep properties of eutectic-composition Al ₂ O ₃ /YAG/YSZ sintered composites. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 7752-7752	6	1
141	Influence of Ca ²⁺ co-doping on the luminescence properties of Eu doped Y ₃ Al ₅ O ₁₂ phosphors. 2021 , 154, 110041		2
140	Combustion Synthesis of YAG:Nd: Structural, Luminescent Characterization and Influence of Si Doping. 2021 , 30, 145-152		
139	Research progress and prospects of rare-earth doped sesquioxide laser ceramics. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3895-3910	6	19
138	Energy transfer and controllable colors of upconversion emission in Er ³⁺ and Dy ³⁺ co-doped CaF ₂ transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2021 ,	6	1
137	Rapid synthesis of YAG phosphor by facile mechanical method.		

136	Kinetic effects of substitution Er ³⁺ for Y ³⁺ in (Y _{1-x} Er _x) ₃ Al ₅ O ₁₂ garnet. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5324-5330	6	3
135	Thermodynamic and experimental approach of the effect of Si on the sintering of Y ₃ NbO ₇ . <i>Journal of the European Ceramic Society</i> , 2021 , 41, 5316-5323	6	1
134	High-entropy transparent ceramics: Review of potential candidates and recently studied cases.		2
133	Sintering aids, their role and behaviour in the production of transparent ceramics. 2021 , 7, 100137		4
132	Nd ³⁺ :YAG microspheres powders prepared by spray pyrolysis: Synthesis, characterization and random laser application. 2021 , 269, 124764		4
131	Study and applicability of photoluminescence properties of Cr ⁴⁺ : LiInGeO ₄ . 2021 , 628, 413312		0
130	Advanced lanthanide doped upconversion nanomaterials for lasing emission. 2021 ,		1
129	Nd ³⁺ :YAG transparent ceramics sintered under atmospheric pressure for improving the color gamut of LED-lit LCD. <i>Optical Materials</i> , 2021 , 119, 111346	3.3	1
128	Study on properties of Nd:YAG ceramic microchips with different concentration. <i>Optical Materials</i> , 2021 , 120, 111425	3.3	1
127	Interface analysis and diffusion behavior of YAG/Nd:LuAG heterojunction structure. <i>Ceramics International</i> , 2021 , 47, 32053-32059	5.1	0
126	Densification, microstructure and optical properties of YAG transparent ceramics prepared by dry-pressing and gelcasting. <i>Optical Materials</i> , 2021 , 121, 111509	3.3	1
125	Fabrication and spectral properties of Dy: SrF ₂ transparent ceramics. 2021 , 273, 125141		1
124	Rapid fabrication of extremely thin Nano-Al ₂ O ₃ transparent ceramic wafers through nonaqueous tape casting. <i>Ceramics International</i> , 2021 , 47, 30677-30684	5.1	0
123	Comparative study of Ho:Y ₂ O ₃ and Ho:Y ₃ Al ₅ O ₁₂ transparent ceramics produced from laser-ablated nanoparticles. 2021 , 240, 118460		0
122	J-O study of Nd-doped 8Y-ZrO ₂ transparent ceramic and its potential application in infrared laser. <i>Journal of Alloys and Compounds</i> , 2021 , 884, 161104	5.7	1
121	Ceramics for Laser Technologies. 2021 , 110-124		
120	Stimulated Raman Scattering Spectroscopy of Frontier Nonlinear-Laser Materials: Organic Crystals and Nanocrystalline Ceramics. 2005 , 619-646		1
119	Crystallization and Glass-Ceramics. 2019 , 113-167		9

118	Laser-synthesized Ce ³⁺ and Pr ³⁺ doped Y ₂ O ₃ nanoparticles and their characteristics. <i>Materials Letters</i> , 2020 , 265, 127435	3-3	3
117	Optical Properties and Laser Oscillations of Highly Neodymium-doped YAG Ceramics. 2000 ,		1
116	Development of Nd:YAG ceramic lasers. 2002 ,		4
115	Semiconductor saturable absorber Q-switching of a holmium micro-laser. 2017 , 25, 4579-4584		7
114	High-repetition rate, single-frequency laser with a double Er:YAG ceramics ring cavity. 2019 , 27, 23197-23203	3	
113	Spectroscopy and diode-pumped laser operation of transparent Tm:LuAlO ceramics produced by solid-state sintering. 2020 , 28, 28399-28413		2
112	Dy-doped CaF ₂ transparent ceramics as a functional medium in the broadband mid-infrared spectral region. 2020 , 3, 1811		3
111	Defects and solarization in YAG transparent ceramics. 2019 , 7, 549		23
110	Influence of Ca and Mg doping on the microstructure and optical properties of YAG ceramics. 2017 , 24, 005-243		9
109	Nd-Doped Ceramic YAG Lasers and Their Future. <i>The Review of Laser Engineering</i> , 2003 , 31, 465-470	0	10
108	Current State and the Future of Ceramic Laser Material. <i>The Review of Laser Engineering</i> , 2008 , 36, 544-568		3
107	Fabrication and microstructures of YAG transparent ceramics. 2008 , 40, 311-317		9
106	Fabrication of YAG Transparent Ceramics by Two Step Sintering Process. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2008 , 23, 130-134	1	3
105	Investigation of High-energy Ball Milling of Al-Y ₂ O ₃ Mixtures and Solid-state Reaction Synthesis of YAG Ceramics. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2008 , 23, 1131-1134	1	4
104	Effects of Precipitants on the Properties of Nd ³⁺ :Lu ₂ O ₃ Nano-powders. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 764-768	1	2
103	Transparent Ceramics: One of the Most Important Field of Research and Development of Inorganic Materials. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2009 , 24, 873-881	1	3
102	Synthesis and Phase Transformation Behavior of YAG Powders by a Mechanochemical Solid Reaction. 2006 , 13, 243-249		4
101	Spectroscopy and Optical Properties of Sm ³⁺ :YAG Nanocrystalline Powder Prepared by Co-Precipitation Method: Effect of Sm ³⁺ Ions Concentrations. 2014 , 04, 96-102		1

- 100 Grain boundary diffusion and its relation to segregation of multiple elements in yttrium aluminum garnet. **2020**, 32, 675-696 2
- 99 Comparative study of Yb (3+) doped LuYAG laser ceramic: optical, structure and lasing properties. **2021**, 2036, 012034
- 98 Recent Progress of Nd:YAG Ceramic Lasers. **2001**,
- 97 A Review of Ceramic Materials for Optical Applications.. *The Review of Laser Engineering*, **2002**, 30, 290-296 2
- 96 Research of Nd:LSB microchip laser. **2002**, 13, 554-558
- 95 Synthesis of Polycrystalline YAG Ceramics by Milling-precipitation. **2003**, 40, 1120-1126
- 94 Reduction of the thermal load by laser oscillation in highly Nd³⁺-doped ceramic YAG. **2004**,
- 93 Reduction of the thermal load in highly Nd³⁺-doped ceramic YAG by laser oscillation. **2004**,
- 92 Rare Earth Ion Doped Ceramic Laser Materials. **2005**, 721-731
- 91 Comparative Spectroscopic, Structural and Distribution Characteristics of Laser Transparent Ceramics and Crystals. **2006**,
- 90 Self-Heterodyne Performance of Ceramic Nd:YAG Lasers. **2007**,
- 89 Efficient Broadly Tunable Yb: YAG Ceramic Laser. *The Review of Laser Engineering*, **2008**, 36, 648-652 0
- 88 6.8-W High Efficiency Yb:YAG Ceramic Laser at Room Temperature. *The Review of Laser Engineering*, **2008**, 36, 1073-1076 0
- 87 Spectroscopic Properties and Judd-Ofelt Theory Analysis of Nd:YAG Transparent Laser Ceramic. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2008**, 23, 429-433 1 2
- 86 Optimization of Q-switched Operation at a Laser-Diode Pumped Nd:YAG Ceramic Laser. **2008**, 19, 320-326
- 85 Current Status of Optical Ceramics. **2009**,
- 84 Fifty Years of Advances in Solid-State Laser Materials. **2010**,
- 83 First laser oscillation of 1% at Yb:Sc₂O₃ and Yb:Lu₂O₃ ceramics. **2012**,

82	Diode-pumped mode-locked Tm:YAG ceramic laser. 2013,		
81	Revealing the morphological peculiarities of Y3Al5O12:Nd laser ceramics by ion beam sputtering. 2013, 20, 466-470		
80	Theoretical study of optimal doping concentration in laser ceramics. 2014, 63, 087801		0
79	Diode-Pumped Nd:YAG Ceramics Lasers. 1998,		1
78	Nd3+:YAG Ceramic Materials with Efficient Laser Emission under Diode-Laser Pumping. 2017,		
77	 (HI). 2018, 122-125		
76	Ceramic Scintillation Materials—Approaches, Challenges and Possibilities. 2019, 57-74		0
75	Powder Synthesis and Sintering of Lasing Grade Yb:Lu2O3 Ceramics. 2019,		
74	Development of Transparent Ceramic Persistent Phosphors toward High Performances. <i>The Review of Laser Engineering</i> , 2019, 47, 428		0
73	Elucidation of Optical Scattering in Polycrystalline Ceramics, and Creation of Advanced Material Science. <i>The Review of Laser Engineering</i> , 2019, 47, 422		0
72	Nd:Y2O3 Transparent Ceramics: Fabrication and Laser Performance. 2019,		
71	Preface to Special Issue on New Perspective of Optical Materials Pioneered by Translucent Ceramics. <i>The Review of Laser Engineering</i> , 2019, 47, 420		0
70	Preparation of Ce-doped yttrium aluminum garnet phosphor particles using spray drying method. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 173-180		2.4
69	Development History and State-of-the-art of Laser Ceramics. <i>Ceramist</i> , 2020, 23, 261-271		0.3
68	Fabrication and mechanical characterization of YAG ceramic-composite with alumina nanoparticles using slip casting and sintering process. <i>Materials Research Express</i> , 2020, 7, 115010		1.7
67	Pulverization and Densification Behavior of YAG Powder Synthesized by PVA Polymer Solution Method. <i>Korean Journal of Materials Research</i> , 2020, 30, 573-580		0.2 1
66	Effect of Pr3+ doping concentration on microstructure and optical properties of transparent BaF2 ceramics. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162623		5.7
65	Development of Laser Optical Materials by Pulsed Electric Current Sintering. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2021, 68, 476-481		0.2

64	Comparative study of Lu _x Y _{1-x} AG (x=0..1) laser ceramics doped with 5% Yb ³⁺ . <i>Ceramics International</i> , 2021 , 48, 6294-6294	5.1	0
63	Fabrication, microstructure and properties of transparent Yb:Y ₂ O ₃ ceramics from co-precipitated nanopowders. <i>Optical Materials</i> , 2021 , 122, 111792	3.3	1
62	Review of the Yb ³⁺ :ScBO ₃ Laser Crystal Growth, Characterization, and Laser Applications. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10879	2.6	
61	Efficiency degradation of laser ceramics caused by inappropriate dispersants and sintering aids. <i>Optical Materials</i> , 2021 , 122, 111789	3.3	
60	Effect of the sintering temperature on microstructure and optical properties of reactive sintered YAG:Sm ³⁺ ceramics. <i>Optical Materials: X</i> , 2022 , 13, 100131	1.7	0
59	Garnet transparent ceramic film of Y ₃ Al ₅ O ₁₂ :Eu ³⁺ fabricated through an interface reaction of layered rare-earth hydroxide nanosheets on amorphous alumina. <i>Applied Surface Science</i> , 2022 , 579, 152226	6.7	1
58	Enhanced NIR Region Emission of Chromium by Changing the Chromium Concentration in Yttrium Aluminum Garnet (YAG) Host Matrix. <i>SSRN Electronic Journal</i> ,	1	
57	Specifics of Spectroscopic Features of Yb ³⁺ -Doped Lu ₂ O ₃ Laser Transparent Ceramics. <i>Physica Status Solidi (B): Basic Research</i> , 2100521	1.3	
56	Thermal conductivity and management in laser gain materials: A nano/microstructural perspective. <i>Journal of Applied Physics</i> , 2022 , 131, 020902	2.5	0
55	Rare earth based compounds for solar cells. 2022 , 365-393		0
54	Progress and perspectives on composite laser ceramics: A review. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 1833-1851	6	2
53	Recent advances and perspectives in carbon-based fillers reinforced Si ₃ N ₄ composite for high power electronic devices. <i>Ceramics International</i> , 2022 ,	5.1	1
52	Vacuum Sintering of Yb ₂ O ₃ Transparent Ceramics: Effect of ZrO ₂ Concentration on Structural and Optical Properties. <i>SSRN Electronic Journal</i> ,	1	
51	Fabrication and spectroscopic properties of hot-pressed Tb:CaF ₂ transparent ceramics with different doping concentrations. <i>Optical Materials</i> , 2022 , 126, 112128	3.3	0
50	Fabrication of YAG ceramic tube by UV-assisted direct ink writing. <i>Ceramics International</i> , 2022 ,	5.1	1
49	Experimental research on micro hole drilling of polycrystalline Nd:YAG. <i>Ceramics International</i> , 2022 , 48, 9658-9666	5.1	0
48	Effects of LiF sintering additive on the microstructure and mechanical properties of hot-pressed CaF ₂ transparent ceramics. <i>Optical Materials: X</i> , 2022 , 14, 100147	1.7	
47	Vacuum sintering of Yb ₂ O ₃ transparent ceramics: Effect of ZrO ₂ concentration on structural and optical properties. <i>Journal of Alloys and Compounds</i> , 2022 , 907, 164454	5.7	0

46	Enhanced NIR region emission of chromium by changing the chromium concentration in yttrium aluminum garnet (YAG) host matrix. <i>Journal of Alloys and Compounds</i> , 2022 , 908, 164601	5.7	1
45	Rise and Decay of Pulsed Cathodoluminescence in Nd:YAG Single Crystals and Ceramics. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2021 , 129, 1018-1022	0.7	0
44	Progress in Transparent Nano-Ceramics and Their Potential Applications.. <i>Nanomaterials</i> , 2022 , 12,	5.4	1
43	Effect of rare-earth oxide additives on transparency and fluorescence of SiAlON ceramics. <i>Ceramics International</i> , 2022 ,	5.1	0
42	Effect of complex Si ⁴⁺ +Mg ²⁺ additive on sintering and properties of undoped YAG ceramics. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	0
41	A novel approach and segregation behavior of heavily doped Nd:YAG/YAG composite structure by solid-state crystal growth. <i>Optical Materials</i> , 2022 , 128, 112455	3.3	
40	Investigation on transparent Nd:YAG ceramic/YAG crystal composite by pressureless thermal diffusion bonding. <i>Materials Letters</i> , 2022 , 320, 132327	3.3	0
39	Mixed precipitants derived nanocrystalline powders and RE doped LuAG transparent ceramics. <i>Ceramics International</i> , 2022 ,	5.1	0
38	Importance of optical homogeneity for high-quality transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	
37	The first characterization of cubic Nd ³⁺ -doped mixed La ₂ MoWO ₉ in micro-crystalline powders and translucent micro-ceramics. <i>Journal of Materials Chemistry C</i> ,	7.1	
36	Preparation of YAG Transparent Ceramics by Epoxy Resin Modified Spontaneous Coagulation Casting. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2022 , 790	1	
35	Phase composition, crystal structure, and microwave dielectric properties of Nb-doped and Y-deficient yttrium aluminum garnet ceramics. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	0
34	Photoluminescence of rare-earth/transition metal-doped transparent/translucent polycrystalline Al ₂ O ₃ ceramics: A review. <i>Journal of the American Ceramic Society</i> ,	3.8	0
33	Transparent ceramics based on pyrochlores. 2022 , 399-432		
32	Synthesis of transparent YIG ceramics by pressureless sintering. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	0
31	High-entropy titanate pyrochlore as newly low-thermal conductivity ceramics. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	0
30	Tribological behaviour of transparent ceramics: A review. <i>Journal of the European Ceramic Society</i> , 2022 ,	6	0
29	Effect of solid loading on properties of Y ₂ O ₃ -Al ₂ O ₃ -Nd ₂ O ₃ powder mixtures obtained by planetary ball milling and ceramics based on them. 2022 ,		

28	Fabrication of Yb:YAG Transparent Ceramic by Vacuum Sintering Using Monodispersed Spherical Y ₂ O ₃ and Al ₂ O ₃ Powders. 2022 , 12, 1155	
27	Decay kinetics in single crystals and ceramics based on yttrium aluminum garnet doped with rare earth ions. 2022 , 251, 119228	
26	Effects of Nd ³⁺ doping content on microstructure and spectral properties of Nd:SrF ₂ transparent ceramic. 2022 , 926, 166898	0
25	Influence of isomorphic substitution of Y ³⁺ ions by Gd ³⁺ ions on structural and luminescent properties of Yb:YAG nanopowders. 2022 , 285, 115980	0
24	Fundamental aspects, recent progress and future prospects of inorganic scintillators.	0
23	Thermally stimulated luminescence properties of transparent ceramics for personal dosimetry.	0
22	Synthesis and processing of transparent polycrystalline doped yttrium aluminum garnet: a review. 2023 , 11, 1-20	0
21	Progress of magneto-optical ceramics. 2022 , 100416	2
20	Fabrication of sub-micrometer sized Er:CaF ₂ transparent ceramics for eye-safe lasers. 2022 , 133, 113052	1
19	Highly-doped YAG:Sm ³⁺ transparent ceramics: Effect of Sm ³⁺ ions concentration. 2022 ,	0
18	Transparent diamond ceramics from diamond powder. 2022 ,	1
17	Properties of Compacts from Mixtures of Calcium Fluoride Micro- and Nanopowders. 2022 , 9, 782	0
16	Luminescent Materials Based on Aluminates: A Review. 2200346	0
15	Fabrication of highly transparent thulium-doped Al ₂ O ₃ nanocrystalline ceramics with broadband emission at 1.8 μ m. 2022 , 133, 113082	0
14	Development and prospects of garnet ceramic scintillators: A review.	0
13	Anisotropic alumina ceramics with isotropic optical properties. 2023 , 12, 72-81	0
12	An exceed 60% efficiency Nd:YAG transparent ceramic laser with low attenuation loss effect. 10,	0
11	Fabrication of Engineered Dopant Profiles in Er/Lu:YAG Transparent Laser Ceramics via Additive Manufacturing.	0

10	Synthesis of Er ³⁺ :YAG Nanocrystals and Comparative Spectroscopic Analysis with Bulk Counterparts. 2023 , 14, 255	0
9	Highly Nonstoichiometric YAG Ceramics with Modified Luminescence Properties. 2213418	0
8	Electrochemical Synthesis of Functional Coatings and Nanomaterials in Molten Salts and Their Application. 2023 , 13, 352	1
7	Measurement of gain-saturation properties of a Q-switched Nd:YAG laser oscillator with a three-pass amplifier and corresponding beam diagnosis. 2023 , 282, 170883	0
6	Refractive index and lattice parameter prediction for garnets (A ₃ B ₂ C ₃ X ₁₂). 2023 , 106, 3853-3866	0
5	Continuous-wave diode-pumped Nd ³⁺ : YAG ceramics laser. 1998 ,	0
4	Effect of particle and pore morphology on optical transmission of yttria based laser host ceramics: A small-angle scattering investigation. 2023 , 537, 104-110	0
3	Molecular dynamic simulations of the liquid structure and fast growth of Y ₃ Al ₅ O ₁₂ .	0
2	Fundamentals of ceramics for photonics applications. 2023 , 365-394	0
1	Luminescent transparent ceramic. 2023 , 463-490	0