Yoshio Sakka

List of Publications by Year in Descending Order

616 papers	15,871 citations	59 h-index	96 g-index
628 ext. papers	17,450 ext. citations	3.8 avg, IF	6.75 L-index

#	Paper	IF	Citations
616	Green synthesis, structure feature and energy transfer of yellow-emitting (Y,Gd) O SO :Dy phosphors. *Luminescence*, **2021**,	2.5	1
615	Comparative Investigation on Upconversion Luminescence Properties of Lu2O3:Er/Yb and Lu2O2S:Er/Yb Phosphors. *Physica Status Solidi (A) Applications and Materials Science*, **2021**, 218, 2100014	1.6	3
614	Production of crystal-oriented lanthanum silicate oxyapatite ceramics with anisotropic electrical conductivity and thermal expansion. *Open Ceramics*, **2021**, 6, 100100	3.3	0
613	Fabrication of Textured Porous Ti3SiC2 by Slip Casting under High Magnetic Field and Microstructural Evolution through High Temperature Deformation. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2021**, 85, 256-263	0.4	1
612	Auto-programmed synthesis of metallic aerogels: Core-shell Cu@Fe@Ni aerogels for efficient oxygen evolution reaction. *Nano Energy*, **2021**, 81, 105644	17.1	21
611	Elastic isotropy originating from heterogeneous interlayer elastic deformation in a Ti3SiC2 MAX phase with a nanolayered crystal structure. *Journal of the European Ceramic Society*, **2021**, 41, 2278-2289	6	2
610	Amorphous Alloy Architectures in Pore Walls: Mesoporous Amorphous NiCoB Alloy Spheres with Controlled Compositions a Chemical Reduction. *ACS Nano*, **2020**,	16.7	7
609	Fabrication Alumina Film with High Breakdown Field Strength by New Aerosol Gas Deposition Technology. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2020**, 67, 220-223	0.2	
608	Orientation Dependence of Plastic Deformation Behavior and Fracture Energy Absorption Mechanism around Vickers Indentation of Textured Ti3SiC2 Sintered Body. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2020**, 67, 607-614	0.2	
607	New Development of Powder Processing under Eternal Fields. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2020**, 67, 47	0.2	
606	Pulsed electrodischarged pressure sintering and flash sintering, a review. *Materials Today: Proceedings*, **2019**, 16, 14-24	1.4	5
605	Transparent magneto-optical Ho2O3 ceramics: Role of self-reactive resultant oxyfluoride additive and investigation of vacuum sintering kinetics. *Ceramics International*, **2019**, 45, 14761-14767	5.1	16
604	Heterocoagulation and SPS sintering of sulfonitric-treated CNT and 8YZ nanopowders. *Journal of Asian Ceramic Societies*, **2019**, 7, 238-246	2.4	1
603	Preparation of Double-Shelled Fluorescent Silicon Nanocrystals and Fabrication of Its Thin Layer by Electrophoretic Deposition Process. *Materials Transactions*, **2019**, 60, 49-54	1.3	
602	Photoluminescent and scintillant properties of highly transparent [(Y1-xGdx)0.99Dy0.01]2O3 (x□ 0 and 0.4) ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 4773-4780	3.8	11
601	Fabrication of Ceramics with Highly Controlled Microstructures by Advanced Fine Powder Processing. *KONA Powder and Particle Journal*, **2019**, 36, 114-128	3.4	4
600	Significantly improved photoluminescence of the green-emitting □sialon:Eu2+ phosphor via surface coating of TiO2. *Journal of the American Ceramic Society*, **2019**, 102, 294-302	3.8	2

599	Controlled Surface for Enhanced Luminescence Quantum Yields of Silicon Nanocrystals. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2019**, 66, 145-157	0.2	1
598	Development of Laser Optical Elements by Spark Plasma Sintering Technique. *The Review of Laser Engineering*, **2019**, 47, 448	0	
597	A mesoporous non-precious metal boride system: synthesis of mesoporous cobalt boride by strictly controlled chemical reduction. *Chemical Science*, **2019**, 11, 791-796	9.4	29
596	Effect of texture on oxidation resistance of Ti3AlC2. *Journal of the European Ceramic Society*, **2018**, 38, 3417-3423	6	25
595	Inversion domain network stabilization and spinel phase suppression in ZnO. *Journal of the American Ceramic Society*, **2018**, 101, 2616-2626	3.8	7
594	Distribution of carbon contamination in oxide ceramics occurring during spark-plasma-sintering (SPS) processing: II - Effect of SPS and loading temperatures. *Journal of the European Ceramic Society*, **2018**, 38, 2596-2604	6	35
593	Photoluminescence efficiency significantly enhanced by surface modification of SiO2 coating on □sialon:Eu2+ phosphor particle. *Journal of Alloys and Compounds*, **2018**, 741, 454-458	5.7	4
592	Stabilization of the high-temperature phase and total conductivity of yttrium-doped lanthanum germanate oxyapatite. *Journal of the Ceramic Society of Japan*, **2018**, 126, 91-98	1	1
591	Distribution of carbon contamination in MgAl 2 O 4 spinel occurring during spark-plasma-sintering (SPS) processing: I □Effect of heating rate and post-annealing. *Journal of the European Ceramic Society*, **2018**, 38, 2588-2595	6	28
590	Transparent ultrafine Yb3+:Y2O3 laser ceramics fabricated by spark plasma sintering. *Journal of the American Ceramic Society*, **2018**, 101, 694-702	3.8	24
589	Inherent anisotropy in transition metal diborides and microstructure/property tailoring in ultra-high temperature ceramics□A review. *Journal of the European Ceramic Society*, **2018**, 38, 371-389	6	61
588	Fabrication and Mechanical Properties of Textured Ti3SiC2 Systems Using Commercial Powder. *Materials Transactions*, **2018**, 59, 829-834	1.3	6
587	Fabrication of Ceramics With Highly Controlled Microstructures by Advanced Powder Processing **2018**, 801-807		
586	Dense lanthanum silicate oxyapatite ceramics obtained by uniaxial pressing and slip casting. *Science of Sintering*, **2018**, 50, 433-443	0.7	
585	High Performance of Ceramics and Manufacturing Process Innovation. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2018**, 65, 457	0.2	
584	Preparation of Double-shelled Fluorescent Silicon Nanocrystals and Fabrication of Its Thin Layer by Electrophoretic Deposition Process. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2018**, 65, 108-113	0.2	
583	Influence of the porosity caused by incomplete sintering on the mechanical behaviour of lanthanum silicate oxyapatite. *Ceramics International*, **2018**, 44, 14348-14354	5.1	5
582	Hydrothermal crystallization of a Ln2(OH)4SO4□nH2O layered compound for a wide range of Ln (Ln = La□Dy), thermolysis, and facile transformation into oxysulfate and oxysulfide phosphors. *RSC Advances*, **2017**, 7, 13331-13339	3.7	25

581	Inversion domain boundaries in Mn and Al dual-doped ZnO: Atomic structure and electronic properties. *Journal of the American Ceramic Society*, **2017**, 100, 4252-4262	3.8	14
580	Photocatalytic growth of Ag nanocrystals on hydrothermally synthesized multiphasic TiO2/reduced graphene oxide (rGO) nanocomposites and their SERS performance. *Applied Surface Science*, **2017**, 423, 1-12	6.7	22
579	Yellow-emitting (Tb1−xCex)3Al5O12 phosphor powder and ceramic (0≤x≤0.05): Phase evolution, photoluminescence, and the process of energy transfer. *Ceramics International*, **2017**, 43, 8163-8170	5.1	12
578	Dispersion and structural evolution of multi-walled carbon nanotubes in ZrB2 matrix. *Ceramics International*, **2017**, 43, 10533-10539	5.1	3
577	Interphase coordination design in carbamate-siloxane/vaterite composite microparticles towards tuning ion-releasing properties. *Advanced Powder Technology*, **2017**, 28, 1349-1355	4.6	4
576	Intensity of sulfonitric treatment on multiwall carbon nanotubes. *Chemical Physics Letters*, **2017**, 689, 135-141	2.5	16
575	Possibility of Low-Temperature High-Strain-Rate Superplasticity in Fine-Grained Ceramic Materials. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2017**, 64, 515-522	0.2	
574	Spark Plasma Sintering of Highly Transparent Hydroxyapatite Ceramics. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2017**, 64, 547-551	0.2	8
573	Preparation of carbamate-containing vaterite particles for strontium removal in wastewater treatment. *Journal of Asian Ceramic Societies*, **2017**, 5, 364-369	2.4	3
572	EDTA-assisted phase conversion synthesis of (GdRE)PO nanowires (RE = Eu, Tb) and investigation of photoluminescence. *Science and Technology of Advanced Materials*, **2017**, 18, 447-457	7.1	7
571	High-temperature strength and plastic deformation behavior of niobium diboride consolidated by spark plasma sintering. *Journal of the American Ceramic Society*, **2017**, 100, 5295-5305	3.8	14
570	Effect of texture microstructure on tribological properties of tailored Ti3AlC2 ceramic. *Journal of Advanced Ceramics*, **2017**, 6, 120-128	10.7	20
569	Ultra-high elevated temperature strength of TiB2-based ceramics consolidated by spark plasma sintering. *Journal of the European Ceramic Society*, **2017**, 37, 393-397	6	40
568	Fabrication and Mechanical Properties of Textured Ti3SiC2 Systems Using Commercial Powders. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2017**, 64, 552-557	0.2	
567	Effects of Pretreatment of Source Powder Mixture on Aerosol Gas Deposition Film Synthesis and Luminescence. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2017**, 64, 558-562	0.2	1
566	Development of an electrochemical impedance analysis program based on the expanded measurement model. *Journal of the Ceramic Society of Japan*, **2016**, 124, 943-949	1	16
565	Sintering characteristics and thermoelectric properties of Mn–Al co-doped ZnO ceramics. *Journal of the Ceramic Society of Japan*, **2016**, 124, 515-522	1	15
564	High temperature flexural strength in monolithic boron carbide ceramic obtained from two different raw powders by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2016**, 124, 587-592	1	10

563	Low-temperature spark plasma sintering of alumina by using SiC molding set. *Journal of the Ceramic Society of Japan*, **2016**, 124, 1141-1145	1	9
562	Effects of Processing Parameters on the Deposition of Yttria Partially Stabilized Zirconia Coating During Suspension Plasma Spray. *Journal of the American Ceramic Society*, **2016**, 99, 3546-3555	3.8	16
561	Highly Segmented Thermal Barrier Coatings Deposited by Suspension Plasma Spray: Effects of Spray Process on Microstructure. *Journal of Thermal Spray Technology*, **2016**, 25, 1638-1649	2.5	9
560	Fabrication and Mechanical Properties of Textured Ti3SiC2 MAX Phase Systems. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2016**, 63, 970-975	0.2	2
559	Dispersion and Reinforcing Mechanism of Carbon Nanotubes in a Ceramic Material. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2016**, 63, 955-964	0.2	2
558	Fabrication of Dense Nanostructured Bulk Ceramics by Means of Spark-Plasma-Sintering (SPS) Processing. *Materials Science Forum*, **2016**, 838-839, 225-230	0.4	1
557	Reduction in sintering temperature for flash-sintering of yttria by nickel cation-doping. *Acta Materialia*, **2016**, 106, 344-352	8.4	50
556	Magnetic field alignment in highly concentrated suspensions for gelcasting process. *Ceramics International*, **2016**, 42, 294-301	5.1	5
555	Hardness and toughness control of brittle boron suboxide ceramics by consolidation of star-shaped particles by spark plasma sintering. *Ceramics International*, **2016**, 42, 3525-3530	5.1	11
554	Densification kinetics during isothermal sintering of 8YSZ. *Journal of the European Ceramic Society*, **2016**, 36, 1269-1275	6	15
553	Improved galvanic replacement growth of Ag microstructures on Cu micro-grid for enhanced SERS detection of organic molecules. *Materials Science and Engineering C*, **2016**, 61, 97-104	8.3	11
552	Influence of pre- and post-annealing on discoloration of MgAl 2 O 4 spinel fabricated by spark-plasma-sintering (SPS). *Journal of the European Ceramic Society*, **2016**, 36, 2961-2968	6	38
551	High-strength TiB 2 □TaC ceramic composites prepared using reactive spark plasma consolidation. *Ceramics International*, **2016**, 42, 1298-1306	5.1	36
550	Development of powder processing under external fields. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2016**, 63, 793	0.2	
549	Preparation of Gallium Stannate Dense Sintered Body Using SPS Method. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2016**, 63, 986-989	0.2	
548	Synthesis of crystallographically oriented olivine aggregates using colloidal processing in a strong magnetic field. *Physics and Chemistry of Minerals*, **2016**, 43, 689-706	1.6	2
547	Electrophoretic fabrication of a-b plane oriented La2NiO4 cathode onto electrolyte in strong magnetic field for low-temperature operating solid oxide fuel cell. *Journal of the European Ceramic Society*, **2016**, 36, 4077-4082	6	15
546	High-Temperature Strength of Boron Suboxide Ceramic Consolidated by Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2016**, 99, 2769-2777	3.8	11

545	Triaxial Crystalline Orientation of MgTi2O5 Achieved Using a Strong Magnetic Field and Geometric Effect. *Journal of the American Ceramic Society*, **2016**, 99, 1852-1854	3.8	5
544	High-Strength B4C□TaB2 Eutectic Composites Obtained via In Situ by Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2016**, 99, 2436-2441	3.8	23
543	Synthesis of iron oxide nanoparticles with different morphologies by precipitation method with and without chitosan addition. *Journal of the Ceramic Society of Japan*, **2016**, 124, 489-494	1	9
542	Microstructural analysis and thermoelectric properties of Sn-Al co-doped ZnO ceramics **2016**,		4
541	Prevention of thermal- and moisture-induced degradation of the photoluminescence properties of the Sr2Si5N8:Eu(2+) red phosphor by thermal post-treatment in N2-H2. *Physical Chemistry Chemical Physics*, **2016**, 18, 12494-504	3.6	30
540	Flash spark plasma sintering of ultrafine yttria-stabilized zirconia ceramics. *Scripta Materialia*, **2016**, 121, 32-36	5.6	40
539	Surface modification of multiwall carbon nanotubes by sulfonitric treatment. *Applied Surface Science*, **2016**, 379, 264-269	6.7	66
538	Electrophoretic deposition for obtaining dense lanthanum silicate oxyapatite (LSO). *Ceramics International*, **2016**, 42, 19283-19288	5.1	8
537	Columnar and DVC-structured thermal barrier coatings deposited by suspension plasma spray: high-temperature stability and their corrosion resistance to the molten salt. *Ceramics International*, **2016**, 42, 16822-16832	5.1	17
536	Densification, microstructure evolution and mechanical properties of WC doped HfB2□SiC ceramics. *Journal of the European Ceramic Society*, **2015**, 35, 2707-2714	6	25
535	Photoluminescent and cathodoluminescent performances of Tb3+ in Lu3+-stabilized gadolinium aluminate garnet solid-solutions of [(Gd1□Lux)1□Tby]3Al5O12. *RSC Advances*, **2015**, 5, 59686-59695	3.7	16
534	Effects of high magnetic fields on thermal convection of conductive aqueous solution. *Japanese Journal of Applied Physics*, **2015**, 54, 077301	1.4	1
533	One-step freezing temperature crystallization of layered rare-earth hydroxide (Ln2(OH)5NO3□hH2O) nanosheets for a wide spectrum of Ln (Ln = Pr□r, and Y), anion exchange with fluorine and sulfate, and microscopic coordination probed via photoluminescence. *Journal of Materials Chemistry C*, **2015**, 3, 3428-3437	7.1	42
532	Influence of the crystal structure on the physical properties of monoclinic ZrO 2 nanocrystals. *Nano Structures Nano Objects*, **2015**, 1, 1-6	5.6	3
531	45S5 Bioglass(□)-MWCNT composite: processing and bioactivity. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 199	4.5	25
530	Reduced thermal degradation of the red-emitting Sr2Si5N8:Eu2+ phosphor via thermal treatment in nitrogen. *Journal of Materials Chemistry C*, **2015**, 3, 7642-7651	7.1	53
529	Room-temperature synthesis of Bi4Ge3O12from aqueous solution. *Japanese Journal of Applied Physics*, **2015**, 54, 06FJ03	1.4	4
528	Effects of Gd Substitution on Sintering and Optical Properties of Highly Transparent (Y0.95□GdxEu0.05)2O3 Ceramics. *Journal of the American Ceramic Society*, **2015**, 98, 2480-2487	3.8	22

527	Research and Development of the Coprecipitation Process for Lanthanum Germanate Oxyapatite. *Journal of the American Ceramic Society*, **2015**, 98, 66-70	3.8	5
526	Synthesis of Highly Photocatalytic TiO2 Microflowers Based on Solvothermal Approach Using N,N-Dimethylformamide. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 4747-51	1.3	17
525	Fabrication of c-Axis-Oriented Zeolite L Seed Layer on Porous Zirconia Substrate by Electrophoretic Deposition in Strong Magnetic Field. *Key Engineering Materials*, **2015**, 654, 274-279	0.4	
524	Spectroscopic study of the discoloration of transparent MgAl2O4 spinel fabricated by spark-plasma-sintering (SPS) processing. *Acta Materialia*, **2015**, 84, 9-19	8.4	64
523	Fabrication, microstructure and properties of in situ synthesized B4C^|^ndash;NbB2 eutectic composites by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2015**, 123, 33-37	1	19
522	Deflocculation and stabilization of Ti3SiC2 ceramic powder in gelcasting process. *Journal of the Ceramic Society of Japan*, **2015**, 123, 1010-1017	1	12
521	Consolidation of B4C–VB2 eutectic ceramics by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2015**, 123, 1051-1054	1	6
520	Sinterable powder fabrication of lanthanum silicate oxyapatite based on solid-state reaction method. *Journal of the Ceramic Society of Japan*, **2015**, 123, 274-279	1	8
519	Nano ZrO2–TiN composites with high strength and conductivity. *Journal of the Ceramic Society of Japan*, **2015**, 123, 86-89	1	6
518	Assessment of carbon contamination in MgAl2O4 spinel during spark-plasma-sintering (SPS) processing. *Journal of the Ceramic Society of Japan*, **2015**, 123, 983-988	1	26
517	Effects of High Magnetic Fields on Thermal Convection Using Feeble Magnetic Conductive Aqueous Solutions. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 1404-1409	5.1	
516	Textured Beta-Sialon:Eu2+ Phosphor Deposits Fabricated by Electrophoretic Deposition (EPD) Process within a Strong Magnetic Field: Preparation Process and Photoluminescence (PL) Properties Depending on Orientation. *Key Engineering Materials*, **2015**, 654, 268-273	0.4	
515	Synthesis of Multilayered Star-Shaped B6O Particles Using the Seed-Mediated Growth Method. *Journal of the American Ceramic Society*, **2015**, 98, 3635-3638	3.8	11
514	Fabrication of (111)-oriented Tetragonal BaTiO3 Ceramics by an Electrophoretic Deposition in a High Magnetic Field. *Transactions of the Materials Research Society of Japan*, **2015**, 40, 223-226	0.2	8
513	Fabrication and Characterization of Transparent (Y0.98−xTb0.02Eux)2O3 Ceramics with Color-Tailorable Emission. *Journal of the American Ceramic Society*, **2015**, 98, 3877-3883	3.8	11
512	Recent progress in advanced optical materials based on gadolinium aluminate garnet (GdAlO). *Science and Technology of Advanced Materials*, **2015**, 16, 014902	7.1	65
511	High-temperature reactive spark plasma consolidation of TiB2–NbC ceramic composites. *Ceramics International*, **2015**, 41, 10828-10834	5.1	45
510	Processing and enhanced piezoelectric properties of highly oriented compositionally modified Pb(Zr,Ti)O3ceramics fabricated by magnetic alignment. *Applied Physics Express*, **2015**, 8, 041501	2.4	8

509	Consolidation of B4C-TaB2 eutectic composites by spark plasma sinteringPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2015**, 3, 369-372	2.4	15
508	Influence of Spark Plasma Sintering (SPS) Conditions on Transmission of MgAl2O4 Spinel. *Journal of the American Ceramic Society*, **2015**, 98, 378-385	3.8	35
507	Controlled Synthesis of Layered Rare-Earth Hydroxide Nanosheets Leading to Highly Transparent (Y0.95Eu0.05)2O3 Ceramics. *Journal of the American Ceramic Society*, **2015**, 98, 1413-1422	3.8	28
506	Facile and green production of aqueous graphene dispersions for biomedical applications. *Nanoscale*, **2015**, 7, 6436-43	7.7	97
505	Highly anisotropic single crystal-like La2Ti2O7 ceramic produced by combined magnetic field alignment and templated grain growth. *Journal of the European Ceramic Society*, **2015**, 35, 1771-1776	6	19
504	Sinterable Powder Fabrication and the Oxygen-ion Conductivity of Lanthanum Silicate Oxyapatite. *Journal of the Society of Powder Technology, Japan*, **2015**, 52, 648-657	0.3	
503	Hybrid hydrogels containing vertically aligned carbon nanotubes with anisotropic electrical conductivity for muscle myofiber fabrication. *Scientific Reports*, **2014**, 4, 4271	4.9	165
502	Synthesis, characterization, and photoluminescent properties of (La0.95Eu0.05)2O2SO4 red phosphors with layered hydroxyl sulfate as precursor. *Journal of Alloys and Compounds*, **2014**, 603, 28-34	5.7	16
501	Thermal Conversion of Hollow Prussian Blue Nanoparticles into Nanoporous Iron Oxides with Crystallized Hematite Phase. *European Journal of Inorganic Chemistry*, **2014**, 2014, 1137-1141	2.3	25
500	Microstructure and Anisotropic Properties of Textured ZrB2 and ZrB2–MoSi2 Ceramics Prepared by Strong Magnetic Field Alignment. *International Journal of Applied Ceramic Technology*, **2014**, 11, 218-227	2	18
499	In situ TEM observation of a microcrucible mechanism of nanowire growth. *Science*, **2014**, 344, 623-6	33.3	43
498	Development of New Synthesis Route of Lanthanum Germanate Oxyapatite from Homogeneous Aqueous Solution. *Ceramic Transactions*, **2014**, 103-108	0.1	3
497	Fabrication of Transparent MgAl2O4 Spinel by Optimizing Loading Schedule during Spark-Plasma-Sintering. *Ceramic Transactions*, **2014**, 173-180	0.1	2
496	Beta-sialon phosphor deposits fabricated by electrophoretic deposition (EPD) process in a magnetic field. *Ceramics International*, **2014**, 40, 8369-8375	5.1	10
495	Dynamic grain growth during low-temperature spark plasma sintering of alumina. *Scripta Materialia* , **2014**, 80, 29-32	5.6	26
494	Photoluminescent properties of new up-conversion phosphors of Yb/Tm co-doped (Gd1−xLux)3Al5O12 (x = 0.1–0.5) garnet solid solutions. *Journal of Alloys and Compounds*, **2014**, 582, 623-627	5.7	15
493	Synthesis of High-Purity Ti3SiC2 by Microwave Sintering. *International Journal of Applied Ceramic Technology*, **2014**, 11, 911-918	2	29
492	One-pot synthesis of monoclinic ZrO2 nanocrystals under subcritical hydrothermal conditions. *Journal of Supercritical Fluids*, **2014**, 85, 57-61	4.2	38

491	Reactive spark plasma sintering of binderless WC ceramics at 1500 °C. *International Journal of Refractory Metals and Hard Materials*, **2014**, 43, 42-45	4.1	20
490	The effect of the interlayer element on the exfoliation of layered MoAC (A = Al, Si, P, Ga, Ge, As or In) MAX phases into two-dimensional MoC nanosheets. *Science and Technology of Advanced Materials*, **2014**, 15, 014208	7.1	58
489	Discovery of a new crystalline phase: BiGeO2(OH)2(NO3). *CrystEngComm*, **2014**, 16, 10080-10088	3.3	6
488	Positional-dependent luminescence property of β-SiAlON:Eu2+ phosphor particle. *Applied Physics Letters*, **2014**, 104, 021914	3.4	8
487	In Situ Fabrication of B4C-NbB2 Eutectic Composites by Spark-Plasma Sintering. *Journal of the American Ceramic Society*, **2014**, 97, 2376-2378	3.8	24
486	Controlled photocatalytic growth of Ag nanocrystals on brookite and rutile and their SERS performance. *ACS Applied Materials & Interfaces*, **2014**, 6, 236-43	9.5	12
485	Densification behaviour and microstructural development in undoped yttria prepared by flash-sintering. *Journal of the European Ceramic Society*, **2014**, 34, 991-1000	6	128
484	Two-dimensional molybdenum carbides: potential thermoelectric materials of the MXene family. *Physical Chemistry Chemical Physics*, **2014**, 16, 7841-9	3.6	290
483	Luminescent metal nanoclusters: controlled synthesis and functional applications. *Science and Technology of Advanced Materials*, **2014**, 15, 014205	7.1	54
482	Electric double-layer capacitors based on highly graphitized nanoporous carbons derived from ZIF-67. *Chemistry - A European Journal*, **2014**, 20, 7895-900	4.8	344
481	Systematic study on densification of alumina fine powder during milliwave sintering at 28 GHzPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2014**, 2, 215-222	2.4	4
480	Magnesium ion distribution and defect concentrations of MgO-doped lanthanum silicate oxyapatite. *Solid State Ionics*, **2014**, 258, 24-29	3.3	3
479	Direct synthesis of MOF-derived nanoporous carbon with magnetic Co nanoparticles toward efficient water treatment. *Small*, **2014**, 10, 2096-107	11	505
478	Controlled crystallization of cyano-bridged Cu-Pt coordination polymers with two-dimensional morphology. *Chemistry - an Asian Journal*, **2014**, 9, 1511-4	4.5	13
477	Pressureless Sintering and Reaction Mechanisms of Ti3SiC2 Ceramics. *Journal of the American Ceramic Society*, **2014**, 97, 1407-1412	3.8	16
476	Fabrication of textured alumina by magnetic alignment via gelcasting based on low-toxic system. *Journal of the European Ceramic Society*, **2014**, 34, 3841-3848	6	17
475	Microstructure and adsorption property of nanocarbide-derived carbon (CDC) synthesized at ambient temperature. *Materials Letters*, **2014**, 130, 188-191	3.3	5
474	Toughness control of boron carbide obtained by spark plasma sintering in nitrogen atmosphere. *Ceramics International*, **2014**, 40, 3053-3061	5.1	32

473	Fabrication of Textured Ti3SiC2 Ceramics by Slip Casting in a Magnetic Field and Pulsed Electric Current Sintering. *Journal of the Society of Powder Technology, Japan*, **2014**, 51, 163-168	0.3	1
472	Tough and dense boron carbide obtained by high-pressure (300 MPa) and low-temperature (1600°C) spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2014**, 122, 271-275	1	21
471	B6O ceramic by in-situ reactive spark plasma sintering of a B2O3 and B powder mixture. *Journal of the Ceramic Society of Japan*, **2014**, 122, 336-340	1	10
470	Preparation of siloxane-containing vaterite doped with magnesium. *Journal of the Ceramic Society of Japan*, **2014**, 122, 1010-1015	1	7
469	Transparent ZnAl2O4 ceramics fabricated by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2014**, 122, 784-787	1	19
468	Fabrication of textured Ti3SiC2 ceramic by slip casting in a strong magnetic field and pressureless sintering. *Journal of the Ceramic Society of Japan*, **2014**, 122, 817-821	1	17
467	Low-Tepmerature Synthesis Process of Lanthanum Germanate Oxyapatite by Citrate Combustion Method. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2014**, 61, 582-586	0.2	2
466	Influence of Loading Condition on Fabrication of Transparent MgAl2O4 Spinel Ceramics by Spark-Plasma-Sintering (SPS) Technique. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2014**, 61, 565-574	0.2	
465	Metal-ceramic/ceramic nanostructured layered composites for solid oxide fuel cells by spark plasma sintering. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 4218-23	1.3	3
464	Fabrication of Textured Ti2AlN Ceramic by Slip Casting in a Strong Magnetic Field and Spark Plasma Sintering. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2014**, 61, 538-543	0.2	5
463	Nano-Blast Synthesis of Nano-Size CeO2–Gd2O3 Powders **2014**, 141-145		
462	Challenges of nanostructuring and functional properties for selected bulk materials obtained by reactive spark plasma sintering. *Japanese Journal of Applied Physics*, **2014**, 53, 05FB22	1.4	8
461	Recent advances in understanding the reinforcing ability and mechanism of carbon nanotubes in ceramic matrix composites. *Science and Technology of Advanced Materials*, **2014**, 15, 064902	7.1	66
460	Tens of micron-sized unilamellar nanosheets of Y/Eu layered rare-earth hydroxide: efficient exfoliation via fast anion exchange and their self-assembly into oriented oxide film with enhanced photoluminescence. *Science and Technology of Advanced Materials*, **2014**, 15, 014203	7.1	29
459	Luminescence Behaviors of the New Upconversion Phosphors of Yb/Ho Co-Doped (Gd1-xLux)3Al5O12 (x=0.1-0.5) Garnet Solid Solutions. *Key Engineering Materials*, **2014**, 602-603, 1034-1038	0.4	4
458	In Situ Observation of Diamagnetic Fluid Flow in High Magnetic Fields. *Key Engineering Materials*, **2014**, 616, 188-193	0.4	1
457	Phosphor Deposits of β-Sialon:Eu Mixed with SnO2 Nanoparticles Fabricated by the Electrophoretic Deposition (EPD) Process. *Materials*, **2014**, 7, 3623-3633	3.5	10
456	Chemical Reactivity and Cathode Properties of LaCoO3 on Lanthanum Silicate Oxyapatite Electrolyte. *Key Engineering Materials*, **2014**, 616, 120-128	0.4	9

455	Reductant-free colloidal synthesis of near-IR emitting germanium nanocrystals: role of primary amine. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2204-10	1.3	5
454	Trends in electronic structures and structural properties of MAX phases: a first-principles study on M(2)AlC (M = Sc, Ti, Cr, Zr, Nb, Mo, Hf, or Ta), M(2)AlN, and hypothetical M(2)AlB phases. *Journal of Physics Condensed Matter*, **2014**, 26, 505503	1.8	69
453	Facile and green synthesis of (LaEu)OS red phosphors with sulfate-ion pillared layered hydroxides as a new type of precursor: controlled hydrothermal processing, phase evolution and photoluminescence. *Science and Technology of Advanced Materials*, **2014**, 15, 014204	7.1	18
452	Effective Use of Mesoporous Silica Filler: Comparative Study on Thermal Stability and Transparency of Silicone Rubbers Loaded with Various Kinds of Silica Particles. *European Journal of Inorganic Chemistry*, **2014**, 2014, 2773-2778	2.3	18
451	Microwave Sintering of Ti3Si(Al)C2 Ceramic. *Journal of the American Ceramic Society*, **2014**, 97, 2731-2735	3.8	14
450	Hybrid White Light Emitting Diode Based on Silicon Nanocrystals. *Advanced Functional Materials*, **2014**, 24, n/a-n/a	15.6	38
449	Particle processing technology. *Science and Technology of Advanced Materials*, **2014**, 15, 010201	7.1	
448	Mechanically reliable thermoelectric (TE) nanocomposites by dispersing and embedding TE-nanostructures inside a tetragonal ZrO matrix: the concept and experimental demonstration in graphene oxide-3YSZ system. *Science and Technology of Advanced Materials*, **2014**, 15, 014201	7.1	14
447	Crystalline-Oriented Beta-Sialon:Eu2+Deposits Fabricated by Electrophoretic Deposition (EPD) within Strong Magnetic Field. *ECS Journal of Solid State Science and Technology*, **2014**, 3, R195-R199	2	1
446	Research progress in nondoped lanthanoid silicate oxyapatites as new oxygen-ion conductors. *Journal of the Ceramic Society of Japan*, **2014**, 122, 921-939	1	21
445	Rudimental research progress of rare-earth silicate oxyapatites: their identification as a new compound until discovery of their oxygen ion conductivity. *Journal of the Ceramic Society of Japan*, **2014**, 122, 649-663	1	15
444	MOF-derived Nanoporous Carbon as Intracellular Drug Delivery Carriers. *Chemistry Letters*, **2014**, 43, 717-719	1.7	149
443	Microstructure and high-temperature strength of textured and non-textured ZrB ceramics. *Science and Technology of Advanced Materials*, **2014**, 15, 014202	7.1	35
442	A strategy for fabricating textured silicon nitride with enhanced thermal conductivity. *Journal of the European Ceramic Society*, **2014**, 34, 2585-2589	6	33
441	TEM Characterization of Nanocomposite Materials **2014**, 333-373		
440	Fabrication of Textured Ceramics Using Mn and Nb-doped Hexagonal BaTiO3 by an Electrophoretic Deposition in a High Magnetic Field. *Transactions of the Materials Research Society of Japan*, **2014**, 39, 199-202	0.2	1
439	Theoretical modeling of electrode impedance for an oxygen ion conductor and metallic electrode system based on the interfacial conductivity theory. *Solid State Ionics*, **2013**, 232, 49-57	3.3	7
438	Spark plasma sintering of damage tolerant and machinable YAM ceramics. *Journal of Advanced Ceramics*, **2013**, 2, 193-200	10.7	3

437	Dielectrophoretically aligned carbon nanotubes to control electrical and mechanical properties of hydrogels to fabricate contractile muscle myofibers. *Advanced Materials*, **2013**, 25, 4028-34	24	200
436	Transparent hydroxyapatite ceramics consolidated by spark plasma sintering. *Scripta Materialia*, **2013**, 69, 366-369	5.6	26
435	Structure characterization and photoluminescence properties of (Y0.95−xGdxEu0.05)2O3 red phosphors converted from layered rare-earth hydroxide (LRH) nanoflake precursors. *Journal of Alloys and Compounds*, **2013**, 559, 188-195	5.7	30
434	Structural Features and Color Tunable Photoluminescence of the Binary and Ternary Layered Rare-Earth Hydroxides of (Y,Ln)2(OH)5NO3·nH2O (Ln=Tb, Eu). *Key Engineering Materials*, **2013**, 544, 252-258	0.4	1
433	Mechanochemical activation of aluminum powder and synthesis of alumina based ceramic composites. *Ceramics International*, **2013**, 39, 8141-8146	5.1	7
432	Doped-carbon electrocatalysts with trimodal porosity from a homogeneous polypeptide gel. *Journal of Materials Chemistry A*, **2013**, 1, 13576	13	44
431	Grain-boundary sliding model of pore shrinkage in late intermediate sintering stage under hydrostatic pressure. *Acta Materialia*, **2013**, 61, 6661-6669	8.4	9
430	Greatly enhanced Dy3+ emission via efficient energy transfer in gadolinium aluminate garnet (Gd3Al5O12) stabilized with Lu3+. *Journal of Materials Chemistry C*, **2013**, 1, 7614	7.1	74
429	Controlled Thermal Plasma Processing of Ceramic Nanopowders **2013**, 979-989		
428	Microstructure and mechanical properties of ZrB2–SiC–BN composites fabricated by reactive hot pressing and reactive spark plasma sintering. *Scripta Materialia*, **2013**, 68, 889-892	5.6	23
427	Machinable ZrB2–SiC–BN composites fabricated by reactive spark plasma sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 582, 41-46	5.3	31
426	Spark plasma sintered Ni-YSZ/YSZ bi-layers for solid oxide fuel cell. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 4150-7	1.3	2
425	Transparent nanocrystalline bulk alumina obtained at 7.7GPa and 800°C. *Scripta Materialia*, **2013**, 69, 362-365	5.6	45
424	Preparation of Barium Titanate Grain-Oriented Ceramics by Electrophoresis Deposition Method under High Magnetic Field Using Single-Domain Nanoparticles. *Key Engineering Materials*, **2013**, 582, 27-31	0.4	2
423	Efficient green-luminescent germanium nanocrystals. *Journal of Materials Chemistry A*, **2013**, 1, 3747	13	28
422	Fabrication of the c-axis oriented zeolite L compacts using strong magnetic field. *Materials Letters*, **2013**, 93, 408-410	3.3	8
421	Theoretical modeling of electrode impedance for an oxygen ion conductor and metallic electrode system based on the interfacial conductivity theory. Part II: Case of the limiting process by non-steady-state surface diffusion. *Solid State Ionics*, **2013**, 249-250, 78-85	3.3	7
420	Effect of Gd2O3 on the thermal conductivity of ZrO2–4mol.% Y2O3 ceramics fabricated by spark plasma sintering. *Scripta Materialia*, **2013**, 69, 165-170	5.6	13

419	Synthesis, microstructure and mechanical properties of reactively sintered ZrB 2 SiC ZrN composites. *Ceramics International*, **2013**, 39, 7273-7277	5.1	12
418	Analysis of abnormal grain growth of oriented LiCoO2 prepared by slip casting in a strong magnetic field. *Journal of the European Ceramic Society*, **2013**, 33, 3059-3064	6	11
417	Development of Eu3+ activated monoclinic, perovskite, and garnet compounds in the Gd2O3 Al2O3 phase diagram as efficient red-emitting phosphors. *Journal of Solid State Chemistry*, **2013**, 206, 104-112	3.3	22
416	Nanocrystalline ZrB2 powders prepared by mechanical alloyingPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2013**, 1, 304-307	2.4	13
415	Surface modification of Ca- SiAlON: Eu2+ phosphor particles by SiO2 coating and fabrication of its deposit by electrophoretic deposition (EPD) process. *Applied Surface Science*, **2013**, 280, 229-234	6.7	25
414	Size-dependent color tuning of efficiently luminescent germanium nanoparticles. *Langmuir*, **2013**, 29, 7401-10	4	62
413	NMR, ESR, and Luminescence Characterization of Bismuth Embedded Zeolites Y. *Journal of Physical Chemistry C*, **2013**, 117, 6399-6408	3.8	30
412	Perfect High-Temperature Plasticity Realized in Multiwalled Carbon Nanotube-Concentrated Al2O3 Hybrid. *Journal of the American Ceramic Society*, **2013**, 96, 1904-1908	3.8	11
411	Highly transparent alumina obtained by low cost high pressure SPS. *Ceramics International*, **2013**, 39, 3243-3248	5.1	60
410	Novel Electronic and Magnetic Properties of Two-Dimensional Transition Metal Carbides and Nitrides. *Advanced Functional Materials*, **2013**, 23, 2185-2192	15.6	979
409	Reactive spark plasma sintering of ZrC and HfC ceramics with fine microstructures. *Scripta Materialia*, **2013**, 69, 139-142	5.6	45
408	Layered rare-earth hydroxide and oxide nanoplates of the Y/Tb/Eu system: phase-controlled processing, structure characterization and color-tunable photoluminescence via selective excitation and efficient energy transfer. *Science and Technology of Advanced Materials*, **2013**, 14, 015006	7.1	44
407	Fabrication of Dense ZrO2/CNT Composites: Influence of Bead-Milling Treatment. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 4374-4381	2.3	11
406	Unprecedented simultaneous enhancement in strain tolerance, toughness and strength of Al2O3 ceramic by multiwall-type failure of a high loading of carbon nanotubes. *Nanotechnology*, **2013**, 24, 155702	3.4	36
405	Reaction temperature variations on the crystallographic state of spinel cobalt aluminate. *Dalton Transactions*, **2013**, 42, 7167-76	4.3	32
404	Preparation of Barium Titanate Nanoperticles with Necking Structure/Polymer Complex and their Dielectric Properties. *Key Engineering Materials*, **2013**, 582, 23-26	0.4	
403	The development of Ce-activated (Gd,Lu)AlO garnet solid solutions as efficient yellow-emitting phosphors. *Science and Technology of Advanced Materials*, **2013**, 14, 054201	7.1	39
402	Controlled processing of (Gd,Ln)O:Eu (Ln = Y, Lu) red phosphor particles and compositional effects on photoluminescence. *Science and Technology of Advanced Materials*, **2013**, 14, 064202	7.1	27

401	Preparation of Ceramics/Polymer Film Capacitor Using Barium Titanate Nanoparticles with High Dielectric Property and their Dielectric Property. *Key Engineering Materials*, **2013**, 566, 54-58	0.4	
400	Two-Dimensional Orientation in Bi4Ti3O12 Prepared Using Platelet Particles and a Magnetic Field. *Journal of the American Ceramic Society*, **2013**, 96, 1085-1089	3.8	13
399	Ideal design of textured LiCoO2 sintered electrode for Li-ion secondary battery. *APL Materials*, **2013**, 1, 042110	5.7	13
398	Low-Temperature Spark Plasma Sintering of Pure Nano WC Powder. *Journal of the American Ceramic Society*, **2013**, 96, 1702-1705	3.8	33
397	pH localization: a case study during electrophoretic deposition of ternary MAX phase carbide-Ti3SiC2. *Journal of the Ceramic Society of Japan*, **2013**, 121, 348-354	1	18
396	Electrophoretic deposition of orientation-controlled zeolite L layer on porous ceramic substrate. *Journal of the Ceramic Society of Japan*, **2013**, 121, 370-372	1	3
395	Damage and wear resistance of Al2O3□CNT nanocomposites fabricated by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2013**, 121, 867-872	1	7
394	High-temperature phase in zirconia film fabricated by aerosol gas deposition and its change upon subsequent heat treatment. *Journal of the Ceramic Society of Japan*, **2013**, 121, 333-337	1	4
393	Fabrication of textured Ti3AlC2 by spark plasma sintering and their anisotropic mechanical properties. *Journal of the Ceramic Society of Japan*, **2013**, 121, 366-369	1	17
392	Electric field in SPS: geometry and pulsed current effects. *Journal of the Ceramic Society of Japan*, **2013**, 121, 524-526	1	14
391	Hydrothermal transformation of magnetically orientation-controlled seed layer into orientation-retained dense, continuous film in clear reaction solution. *Journal of the Ceramic Society of Japan*, **2013**, 121, 550-554	1	1
390	Fabrication of textured □alumina in high magnetic field via gelcasting with the use of glucose derivative. *Journal of the Ceramic Society of Japan*, **2013**, 121, 89-94	1	5
389	Synthesis of B6O powder and spark plasma sintering of B6O and B6O□B4C ceramics. *Journal of the Ceramic Society of Japan*, **2013**, 121, 950-955	1	29
388	Fabrication of Textured BaTiO3 Ceramics by Electrophoretic Deposition in A High Magnetic Field using Single-domain Particles. *Transactions of the Materials Research Society of Japan*, **2013**, 38, 41-44	0.2	4
387	Orientation control of mordenite zeolite in strong magnetic field. *Microporous and Mesoporous Materials*, **2012**, 151, 188-194	5.3	14
386	Optical and adhesive properties of composite silica-impregnated Ca-□SiAlON:Eu2+ phosphor films prepared on silica glass substrates. *Journal of the European Ceramic Society*, **2012**, 32, 1365-1369	6	7
385	Microstructure characterization of ZrB2□SiC composite fabricated by spark plasma sintering with TaSi2 additive. *Journal of the European Ceramic Society*, **2012**, 32, 1441-1446	6	28
384	Zircon□zirconia (ZrSiO4□ZrO2) dense ceramic composites by spark plasma sintering. *Journal of the European Ceramic Society*, **2012**, 32, 787-793	6	29

383	High-temperature bending strength, internal friction and stiffness of ZrB2–20vol% SiC ceramics. *Journal of the European Ceramic Society*, **2012**, 32, 2519-2527	6	97
382	Effect of loading schedule on densification of MgAl2O4 spinel during spark plasma sintering (SPS) processing. *Journal of the European Ceramic Society*, **2012**, 32, 2303-2309	6	35
381	White-light-emitting Liquefiable Silicon Nanocrystals. *Chemistry Letters*, **2012**, 41, 1157-1159	1.7	15
380	High-pressure spark plasma sintering of MgO-doped transparent alumina. *Journal of the Ceramic Society of Japan*, **2012**, 120, 116-118	1	38
379	Fabrication and Analysis of the Oriented LiCoO2 by Slip Casting in a Strong Magnetic Field. *Journal of the American Ceramic Society*, **2012**, 95, 3428-3433	3.8	6
378	Ultra-broad near-infrared photoluminescence from crystalline (K-crypt)2Bi2 containing [Bi2]2– dimers. *Journal of Materials Chemistry*, **2012**, 22, 20175		24
377	Electrophoretic Deposition of Ti3SiC2 and Texture Development in a Strong Magnetic Field. *Journal of the American Ceramic Society*, **2012**, 95, 2857-2862	3.8	24
376	Influence of the zirconia transformation on the thermal behavior of zircon–zirconia composites. *Journal of Thermal Analysis and Calorimetry*, **2012**, 110, 695-705	4.1	9
375	Fluorescent and paramagnetic core–shell hybrid nanoparticles for bi-modal magnetic resonance/luminescence imaging. *Journal of Materials Chemistry*, **2012**, 22, 20641		24
374	Impact of magnetic field on molecular alignment and electrical conductivity in phthalocyanine nanowires. *Journal of Materials Chemistry*, **2012**, 22, 8629		18
373	Effect of Alumina Dopant on Transparency of Tetragonal Zirconia. *Journal of Nanomaterials*, **2012**, 2012, 1-5	3.2	25
372	Densification kinetics of nanocrystalline zirconia powder using microwave and spark plasma sintering--a comparative study. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 4577-82	1.3	13
371	Well-defined crystallites autoclaved from the nitrate/NH4OH reaction system as the precursor for (Y,Eu)2O3 red phosphor: Crystallization mechanism, phase and morphology control, and luminescent property. *Journal of Solid State Chemistry*, **2012**, 192, 229-237	3.3	33
370	Effective preparation of SiC nanoparticles by the reaction of thermal nitrogen plasma with solid SiC. *Journal of Alloys and Compounds*, **2012**, 520, 127-131	5.7	6
369	Peculiarities of the neck growth process during initial stage of spark-plasma, microwave and conventional sintering of WC spheres. *Journal of Alloys and Compounds*, **2012**, 523, 1-10	5.7	74
368	The effects of Gd3+ substitution on the crystal structure, site symmetry, and photoluminescence of Y/Eu layered rare-earth hydroxide (LRH) nanoplates. *Dalton Transactions*, **2012**, 41, 1854-61	4.3	51
367	Electrical conductivity and X-ray diffraction analysis of oxyapatite-type lanthanum silicate and neodymium silicate solid solution. *Solid State Ionics*, **2012**, 225, 443-447	3.3	4
366	Synchrotron X-ray, photoluminescence, and quantum chemistry studies of bismuth-embedded dehydrated zeolite Y. *Journal of the American Chemical Society*, **2012**, 134, 2918-21	16.4	60

365	Study of phase transformation behaviour of alumina through precipitation method. *Journal Physics D: Applied Physics*, **2012**, 45, 215302	3	23
364	Near-infrared photoluminescence from molecular crystals containing tellurium. *Journal of Materials Chemistry*, **2012**, 22, 24792		6
363	Photoluminescence from Bi5(GaCl4)3 molecular crystal. *Dalton Transactions*, **2012**, 41, 11055-61	4.3	24
362	Porous calcium sulfate ceramics with tunable degradation rate. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 2437-43	4.5	13
361	Fabrication of Ceria- and Lanthanium Gallate-based Solid Electrolyte Layers on Porous NiO-YSZ by Sequential Electrophoretic Deposition Process. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2012**, 59, 626-630	0.2	3
360	Highly concentrated 3D macrostructure of individual carbon nanotubes in a ceramic environment. *Advanced Materials*, **2012**, 24, 4322-6	24	48
359	Experimental and theoretical studies of photoluminescence from Bi82+ and Bi53+ stabilized by [AlCl4]□n molecular crystals. *Journal of Materials Chemistry*, **2012**, 22, 12837		43
358	Synthesis of Plate-Like ZrB2 Grains. *Journal of the American Ceramic Society*, **2012**, 95, 85-88	3.8	27
357	Spark Plasma Sintering of Diamond Binderless WC Composites. *Journal of the American Ceramic Society*, **2012**, 95, 2423-2428	3.8	21
356	Strong ZrB2□SiC□WC Ceramics at 1600□C. *Journal of the American Ceramic Society*, **2012**, 95, n/a-n/a	3.8	19
355	Dense zircon (ZrSiO4) ceramics by high energy ball milling and spark plasma sintering. *Ceramics International*, **2012**, 38, 1793-1799	5.1	38
354	Grain boundary diffusion driven spark plasma sintering of nanocrystalline zirconia. *Ceramics International*, **2012**, 38, 4385-4389	5.1	23
353	Orientation Control of Hematite via Transformation of Textured Goethite Prepared by EPD in a Strong Magnetic Field. *Key Engineering Materials*, **2012**, 507, 227-231	0.4	1
352	Tailoring Plate-Like Grained ZrB2 Ceramic via a Strong Magnetic Field Alignment Method Followed by Spark Plasma Sintering. *Key Engineering Materials*, **2012**, 512-515, 702-705	0.4	
351	One-step route to a hybrid TiO/Ti W N nanocomposite by selective carbothermal nitridation. *Science and Technology of Advanced Materials*, **2012**, 13, 035001	7.1	8
350	Effective lattice stabilization of gadolinium aluminate garnet (GdAG) via Lu doping and development of highly efficient (Gd,Lu)AG:Eu red phosphors. *Science and Technology of Advanced Materials*, **2012**, 13, 035007	7.1	31
349	Textured Ti3SiC2 by EPD in a Strong Magnetic Field. *Key Engineering Materials*, **2012**, 507, 15-19	0.4	1
348	Hydrogen generation from water using Mg nanopowder produced by arc plasma method. *Science and Technology of Advanced Materials*, **2012**, 13, 025009	7.1	25

347	Development of High-Strain-Rate Superplastic Oxide Ceramics Based on Flow Mechanism. *Materials Science Forum*, **2012**, 735, 9-14	0.4	2
346	Phase relationships in the quasi-ternary LaO-SiO-MgO system at 1773 K. *Science and Technology of Advanced Materials*, **2012**, 13, 045006	7.1	7
345	High hardness BaCb-(BxOy/BN) composites with 3D mesh-like fine grain-boundary structure by reactive spark plasma sintering. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 959-65	1.3	22
344	Textured Ti3SiC2 by gelcasting in a strong magnetic field. *Journal of the Ceramic Society of Japan*, **2012**, 120, 544-547	1	11
343	EFFECT OF β-CALCIUM ORTHOPHOSPHATE ADDITION ON HIGH- TEMPERATURE PLASTIC DEFORMATION OF HYDROXYAPATITE WITH SUBMICROMETER-SIZED GRAINS. *Phosphorus Research Bulletin*, **2012**, 27, 11-17	0.3	
342	Nanometer-thin layered hydroxide platelets of (Y0.95Eu0.05)2(OH)5NO3□xH2O: exfoliation-free synthesis, self-assembly, and the derivation of dense oriented oxide films of high transparency and greatly enhanced luminescence. *Journal of Materials Chemistry*, **2011**, 21, 6903		66
341	Hybrid dandelion-like YH(O3PC6H5)2:Ln (Ln = Eu3+, Tb3+) particles: formation mechanism, thermal and photoluminescence properties. *CrystEngComm*, **2011**, 13, 5226	3.3	6
340	Ultrabroad near-infrared photoluminescence from Bi5(AlCl4)3 crystal. *Journal of Materials Chemistry*, **2011**, 21, 4060		58
339	Photoluminescence, cytotoxicity and in vitro imaging of hexagonal terbium phosphate nanoparticles doped with europium. *Nanoscale*, **2011**, 3, 1263-9	7.7	50
338	Ultrabroad near-infrared photoluminescence from ionic liquids containing subvalent bismuth. *Optics Letters*, **2011**, 36, 100-2	3	51
337	Sensitized broadband near-infrared luminescence from bismuth-doped silicon-rich silica films. *Optics Letters*, **2011**, 36, 4221-3	3	15
336	Thermal conductivity of EB-PVD ZrO2□ mol% Y2O3 films using the laser flash method. *Journal of Alloys and Compounds*, **2011**, 509, 1045-1049	5.7	20
335	3rd International Congress on Ceramics (ICC3). *IOP Conference Series: Materials Science and Engineering*, **2011**, 18, 001001	0.4	5
334	Formation of Zirconia Films by the Aerosol Gas Deposition Method (By Jetting of Positive Charged Powder). *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2011**, 58, 463-472	0.2	4
333	Application of new low toxic monomers in gelcasting process of alumina powder. *IOP Conference Series: Materials Science and Engineering*, **2011**, 18, 072009	0.4	2
332	Texture development in anatase and rutile prepared by slip casting in a strong magnetic field. *Journal of the Ceramic Society of Japan*, **2011**, 119, 334-337	1	10
331	Texture development of surface-modified SiC prepared by EPD in a strong magnetic field. *Journal of the Ceramic Society of Japan*, **2011**, 119, 667-671	1	4
330	Influence of La2O3 addition on thermophysical properties of ZrO2-4 mol %Y2O3 ceramics fabricated by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2011**, 119, 929-932	1	7

329	Modeling of the temperature distribution of flash sintered zirconia. *Journal of the Ceramic Society of Japan*, **2011**, 119, 144-146	1	96
328	Alignment of Carbon Nanofibers in the Al2O3 Matrix under a Magnetic Field. *Materials Transactions*, **2011**, 52, 572-575	1.3	5
327	Appearance of high-temperature phase in zirconia films made by aerosol gas deposition method. *Journal of the Ceramic Society of Japan*, **2011**, 119, 271-276	1	15
326	Textured lead titanate ceramics fabricated by slip casting under a high magnetic field. *Journal of the Ceramic Society of Japan*, **2011**, 119, 60-64	1	7
325	Fabrication of the oriented LiCoO2 sheet using a strong magnetic field. *Journal of the Ceramic Society of Japan*, **2011**, 119, 701-705	1	6
324	Fabrication of Textured Nb4AlC3 Ceramic by Slip Casting in a Strong Magnetic Field and Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2011**, 94, 410-415	3.8	63
323	Tailoring Ti3SiC2 Ceramic via a Strong Magnetic Field Alignment Method Followed by Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2011**, 94, 742-748	3.8	44
322	Textured h-BN Ceramics Prepared by Slip Casting. *Journal of the American Ceramic Society*, **2011**, 94, 1397-1404	3.8	23
321	Effects of Pressure Application Method on Transparency of Spark Plasma Sintered Alumina. *Journal of the American Ceramic Society*, **2011**, 94, 1405-1409	3.8	51
320	Phase Relation Studies in the ZrO2–CeO2–La2O3 System at 1500°C. *Journal of the American Ceramic Society*, **2011**, 94, 1911-1919	3.8	10
319	Highly Infrared Transparent Nanometric Tetragonal Zirconia Prepared by High-Pressure Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2011**, 94, 2739-2741	3.8	23
318	Fabrication of Transparent Yttria by High-Pressure Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2011**, 94, 3206-3210	3.8	62
317	Gadolinium Aluminate Garnet (Gd3Al5O12): Crystal Structure Stabilization via Lutetium Doping and Properties of the (Gd1−xLux)3Al5O12 Solid Solutions (x = 0–0.5). *Journal of the American Ceramic Society*, **2011**, 95, n/a-n/a	3.8	12
316	Low-temperature formation of Ln silicate oxyapatite (Ln=La and Nd) by the water-based sol–gel method. *Solid State Ionics*, **2011**, 204-205, 91-96	3.3	11
315	Superplastic deformation of hydroxyapatite ceramics with B2O3 or Na2O addition fabricated by pulse current pressure sintering. *Journal of the European Ceramic Society*, **2011**, 31, 2641-2648	6	13
314	High-hardness B4C textured by a strong magnetic field technique. *Scripta Materialia*, **2011**, 64, 256-259	5.6	42
313	Shell-like nanolayered Nb4AlC3 ceramic with high strength and toughness. *Scripta Materialia*, **2011**, 64, 765-768	5.6	63
312	Effect of Bi(B)O3 perovskite substitution on enhanced tetragonality and ferroelectric transition temperature in Pb(Zr,Ti)O3 ceramics. *Materials Chemistry and Physics*, **2011**, 129, 322-325	4.4	9

311	Single-phased luminescent mesoporous nanoparticles for simultaneous cell imaging and anticancer drug delivery. *Biomaterials*, **2011**, 32, 7226-33	15.6	62
310	Fabrication of dense calcium orthophosphate with submicrometer-sized grains and its high-temperature superplastic deformation. *Journal of Materials Science*, **2011**, 46, 1956-1962	4.3	
309	Highly fluorescent silica-coated bismuth-doped aluminosilicate nanoparticles for near-infrared bioimaging. *Small*, **2011**, 7, 199-203	11	56
308	Fabrication of Highly-Densified Hydroxyapatite Ceramic with Boron Oxide Addition and Its Superplastic Deformation. *IOP Conference Series: Materials Science and Engineering*, **2011**, 18, 022020	0.4	1
307	Microstructure Control of Barium Titanate - Potassium Niobate Solid Solution System Ceramics by MPB Engineering and Their Piezoelectric Properties. *IOP Conference Series: Materials Science and Engineering*, **2011**, 18, 092058	0.4	
306	Colloidal processing of Gd2O3:Eu3+ red phosphor monospheres of tunable sizes: Solvent effects on precipitation kinetics and photoluminescence properties of the oxides. *Acta Materialia*, **2011**, 59, 3688-3696	4.4	59
305	Beautiful unconventional synthesis and processing technologies of superconductors and some other materials. *Science and Technology of Advanced Materials*, **2011**, 12, 013001	7.1	26
304	Monodisperse colloidal spheres for (Y,Eu)O red-emitting phosphors: establishment of processing window and size-dependent luminescence behavior. *Science and Technology of Advanced Materials*, **2011**, 12, 055001	7.1	23
303	Preparation and Characterization of Grain-Oriented Barium Titanate Ceramics Using Electrophoresis Deposition Method under a High Magnetic Field. *Key Engineering Materials*, **2011**, 485, 313-316	0.4	4
302	Preparation and Dielectric Properties of Dense Barium Titanate Nanoparticle Accumulations by Electrophoresis Deposition Method. *Key Engineering Materials*, **2011**, 485, 35-38	0.4	2
301	Physical and mechanical properties of highly textured polycrystalline NbAlC ceramic. *Science and Technology of Advanced Materials*, **2011**, 12, 044603	7.1	44
300	Tough yttria-stabilized zirconia ceramic by low-temperature spark plasma sintering of long-term stored nanopowders. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 7901-9	1.3	4
299	Effect of sintering temperature on optical properties and microstructure of translucent zirconia prepared by high-pressure spark plasma sintering. *Science and Technology of Advanced Materials*, **2011**, 12, 055003	7.1	44
298	Fabrication of Textured Alumina-Mullite-Silicon Carbide Nano-Composites. *Ceramic Transactions*, **2011**, 143-151	0.1	
297	Microstructure Control of Barium Titanate Potassium Niobate Solid Solution System Ceramics by MPB Engineering and their Piezoelectric Properties. *Key Engineering Materials*, **2011**, 485, 89-92	0.4	9
296	'Beautiful' unconventional synthesis and processing technologies of superconductors and some other materials. *Science and Technology of Advanced Materials*, **2011**, 12, 013001	7.1	2
295	Coexistence of A- and B-Site Vacancy Compensation in La-Doped Sr1BaxTiO3. *Journal of the American Ceramic Society*, **2010**, 93, 2903-2908	3.8	13
294	Highly Transparent Pure Alumina Fabricated by High-Pressure Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2010**, 93, 2460-2462	3.8	71

293	Role of Modification Agent Coverage in Hydrogen Generation by the Reaction of Al with Water. *Journal of the American Ceramic Society*, **2010**, 93, 2534-2536	3.8	12
292	Role of Particle Sizes in Hydrogen Generation by the Reaction of Al with Water. *Journal of the American Ceramic Society*, **2010**, 93, 2998-3001	3.8	22
291	Forming and Microstructure Control of Ceramics by Electrophoretic Deposition (EPD). *KONA Powder and Particle Journal*, **2010**, 28, 74-90	3.4	29
290	Electrophretic Deposition of LDC/LSGM/LDC Tri-layers on NiO-YSZ for Anode-supported SOFC. *Transactions of the Materials Research Society of Japan*, **2010**, 35, 723-725	0.2	1
289	Photoelectrochemical evaluation of anatase TiO2 polycrystalline aggregation layers with different crystalline orientations. *Journal of Materials Research*, **2010**, 25, 63-68	2.5	4
288	Fabrication of Textured β-Si3N4 and β-Sialon by Slip Casting in a Strong Magnetic Field and Reaction-Sintering. *Key Engineering Materials*, **2010**, 434-435, 5-8	0.4	
287	Orientation Dependence of Semiconductor Properties in Anatase TiO2 Polycrystalline Aggregates. *Journal of the Electrochemical Society*, **2010**, 157, H65	3.9	15
286	Hybrid processing and anisotropic sintering shrinkage in textured ZnO ceramics. *Science and Technology of Advanced Materials*, **2010**, 11, 065006	7.1	14
285	Potential use of only YbO in producing dense SiN ceramics with high thermal conductivity by gas pressure sintering. *Science and Technology of Advanced Materials*, **2010**, 11, 065001	7.1	24
284	An efficient and biocompatible fluorescence resonance energy transfer system based on lanthanide-doped nanoparticles. *Nanotechnology*, **2010**, 21, 455703	3.4	23
283	Fluorescent sensing of colloidal CePO4:Tb nanorods for rapid, ultrasensitive and selective detection of vitamin C. *Nanotechnology*, **2010**, 21, 365501	3.4	48
282	Layered Rare-Earth Hydroxides (LRHs) of (Y1−xEux)2(OH)5NO3·nH2O (x = 0−1): Structural Variations by Eu3+ Doping, Phase Conversion to Oxides, and the Correlation of Photoluminescence Behaviors. *Chemistry of Materials*, **2010**, 22, 4204-4213	9.6	99
281	Near-infrared photoluminescence and Raman characterization of bismuth-embedded sodalite nanocrystals. *Optics Letters*, **2010**, 35, 1743-5	3	15
280	Magnetic field-induced off-resonance third-order optical nonlinearity of iron oxide nanoparticles incorporated mesoporous silica thin films during heat treatment. *Optics Express*, **2010**, 18, 2010-9	3.3	7
279	Synthesis, microstructure and mechanical properties of (Zr,Ti)B2-(Zr,Ti)N composites prepared by spark plasma sintering. *Journal of Alloys and Compounds*, **2010**, 494, 266-270	5.7	21
278	Synthesis, Microstructure and Mechanical Properties of ZrB2 Ceramic Prepared by Mechanical Alloying and Spark Plasma Sintering. *Key Engineering Materials*, **2010**, 434-435, 165-168	0.4	1
277	Interfacial-related color tuning of colloidal Si nanocrystals. *Green Chemistry*, **2010**, 12, 2139	10	36
276	Spectroscopic characterization of bismuth embedded Y zeolites. *Applied Physics Letters*, **2010**, 97, 131908	3.4	23

275	Significant third-order optical nonlinearity enhancement of gold nanoparticle incorporated mesoporous silica thin films by magnetic field thermal treatment. *Journal of Materials Chemistry*, **2010**, 20, 8399		12
274	Zirconia nanoceramic via redispersion of highly agglomerated nanopowder and spark plasma sintering. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 6634-40	1.3	4
273	Emission color tuning of laminated and mixed SiAlON phosphor films by electrophoretic deposition. *Journal of the Ceramic Society of Japan*, **2010**, 118, 1-4	1	19
272	Influence of uni and bi-modal SiC composition on mechanical properties and microstructure of reaction-bonded SiC ceramics. *Journal of the Ceramic Society of Japan*, **2010**, 118, 1028-1031	1	7
271	Micro gas sensor assembly of tin oxide nano-particles by a capillary micro-molding process. *Journal of the Ceramic Society of Japan*, **2010**, 118, 202-205	1	5
270	Synthesis of SiC nano-powders from liquid carbon and various silica sources. *Journal of the Ceramic Society of Japan*, **2010**, 118, 345-348	1	6
269	Controlled organic/inorganic interface leading to the size-tunable luminescence from Si nanoparticles. *Journal of the Ceramic Society of Japan*, **2010**, 118, 932-939	1	7
268	Dispersion and Shortening of Multi-Walled Carbon Nanotubes by Size Modification. *Materials Transactions*, **2010**, 51, 192-195	1.3	7
267	Effect of grain size on electrical properties of scandia-stabilized zirconia. *Journal of the Ceramic Society of Japan*, **2010**, 118, 1038-1043	1	9
266	Formation of zirconia films by aerosol gas deposition method using zirconia powder produced by break-down method. *Journal of the Ceramic Society of Japan*, **2010**, 118, 948-951	1	16
265	Formation of zirconia films by the aerosol gas deposition method. *Journal of the Ceramic Society of Japan*, **2010**, 118, 767-770	1	22
264	Microstructure and properties of ZrB2-SiC and HfB2-SiC composites fabricated by spark plasma sintering (SPS) using TaSi2 as sintering aid. *Journal of the Ceramic Society of Japan*, **2010**, 118, 997-1001	1	29
263	Determination of Easy Magnetization Axis of Mordenite Zeolite. *Chemistry Letters*, **2010**, 39, 347-349	1.7	7
262	Effect of alumina addition on initial sintering of cubic ZrO2 (8YSZ). *Ceramics International*, **2010**, 36, 879-885	3.1	21
261	Material properties controlling photocurrent on TiO2 aggregates with plane orientation for dye-sensitized solar cells. *Journal of Nanoparticle Research*, **2010**, 12, 2621-2628	2.3	5
260	Fabrication of c-axis oriented zinc oxide by electrophoretic deposition in a rotating magnetic field. *Journal of the European Ceramic Society*, **2010**, 30, 1171-1175	6	10
259	Experimental verification of pH localization mechanism of particle consolidation at the electrode/solution interface and its application to pulsed DC electrophoretic deposition (EPD). *Journal of the European Ceramic Society*, **2010**, 30, 1187-1193	6	57
258	Gelcasting of alumina with a new monomer synthesized from glucose. *Journal of the European Ceramic Society*, **2010**, 30, 1795-1801	6	40

257	Effect of sintering conditions on microstructure orientation in □SiC prepared by slip casting in a strong magnetic field. *Journal of the European Ceramic Society*, **2010**, 30, 2813-2817	6	36
256	Effect of pH localization on microstructure evolution of deposits during aqueous electrophoretic deposition (EPD). *Journal of the European Ceramic Society*, **2010**, 30, 2467-2473	6	27
255	Microstructure and properties of ZrB2□SiC composites prepared by spark plasma sintering using TaSi2 as sintering additive. *Journal of the European Ceramic Society*, **2010**, 30, 2625-2631	6	34
254	Effect of different modification agents on hydrogen-generation by the reaction of Al with water. *International Journal of Hydrogen Energy*, **2010**, 35, 9561-9568	6.7	105
253	Size-tunable UV-luminescent silicon nanocrystals. *Small*, **2010**, 6, 915-21	11	71
252	Sedimentation classification treatment effect of starting powders in slip casting on magneto-orientation of mordenite zeolite. *Transactions of the Materials Research Society of Japan*, **2010**, 35, 701-703	0.2	1
251	Preparation of Highly Oriented Transparent (Sr,Ba)Nb2O6Ceramics and Their Ferroelectric Properties. *Japanese Journal of Applied Physics*, **2009**, 48, 031405	1.4	18
250	3-Dimensional Grain Orientation of RE-Ba-Cu-O Superconductors Using a Modulated Oval Magnetic Field. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 2961-2964	1.8	13
249	Pulsed-DC Electrophoretic Deposition (EPD) of Aqueous Alumina Suspension for Controlling Bubble Incorporation and Deposit Microstructure. *Key Engineering Materials*, **2009**, 412, 39-44	0.4	8
248	Textured PbTiO3 Based Ceramics Fabricated by Slip Casting in a High Magnetic Field. *Key Engineering Materials*, **2009**, 421-422, 395-398	0.4	
247	Control of lattice spacing in a triangular lattice of feeble magnetic particles formed by induced magnetic dipole interactions. *Science and Technology of Advanced Materials*, **2009**, 10, 014608	7.1	6
246	Magnetic orientation and magnetic anisotropy in paramagnetic layered oxides containing rare-earth ions. *Science and Technology of Advanced Materials*, **2009**, 10, 014604	7.1	33
245	Photoanode characteristics of dye-sensitized solar cell containing TiO2 layers with different crystalline orientations. *Journal of Materials Research*, **2009**, 24, 1417-1421	2.5	8
244	Formation of Crystalline-Oriented Titania Thin Films on ITO Glass Electrodes by EPD in a Strong Magnetic Field. *Key Engineering Materials*, **2009**, 412, 143-148	0.4	1
243	Control of Residual Stress in Multilayered Alumina Composites Prepared Using EPD in a Strong Magnetic Field. *Key Engineering Materials*, **2009**, 412, 233-236	0.4	1
242	Simultaneous alignment and micropatterning of carbon nanotubes using modulated magnetic field. *Science and Technology of Advanced Materials*, **2009**, 10, 014603	7.1	17
241	Fabrication of Multi-Layered Thermoelectric Thick Films and their Thermoelectric Performance. *Key Engineering Materials*, **2009**, 412, 291-296	0.4	
240	Highly textured ZrB2-based ultrahigh temperature ceramics via strong magnetic field alignment. *Scripta Materialia*, **2009**, 60, 615-618	5.6	74

239	Textured HfB2-based ultrahigh-temperature ceramics with anisotropic oxidation behavior. *Scripta Materialia*, **2009**, 60, 913-916	5.6	34
238	Densification and Cell Performance of Gadolinium-Doped Ceria (GDC) Electrolyte/NiO□GDC Anode Laminates. *Journal of the American Ceramic Society*, **2009**, 92, S117-S121	3.8	25
237	Hydrolysis and Dispersion Properties of Aqueous Y2Si2O7 Suspensions. *Journal of the American Ceramic Society*, **2009**, 92, 54-61	3.8	11
236	Preparation of Crystalline-Oriented Titania Photoelectrodes on ITO Glasses from a 2-Propanol□,4-Pentanedione Solvent by Electrophoretic Deposition in a Strong Magnetic Field. *Journal of the American Ceramic Society*, **2009**, 92, 984-989	3.8	24
235	Pressure Effect on the Homogeneity of Spark Plasma-Sintered Tungsten Carbide Powder. *Journal of the American Ceramic Society*, **2009**, 92, 2418-2421	3.8	31
234	Wet Processing and Low-Temperature Pressureless Sintering of SiC Using a Novel Al3BC3 Sintering Additive. *Journal of the American Ceramic Society*, **2009**, 92, 2888-2893	3.8	17
233	Application of constant current pulse to suppress bubble incorporation and control deposit morphology during aqueous electrophoretic deposition (EPD). *Journal of the European Ceramic Society*, **2009**, 29, 1837-1845	6	60
232	Effect of sintering additive on crystallographic orientation in AlN prepared by slip casting in a strong magnetic field. *Journal of the European Ceramic Society*, **2009**, 29, 2627-2633	6	29
231	Micro-emulsion synthesis of blue-luminescent silicon nanoparticles stabilized with alkoxy monolayers. *Journal of Crystal Growth*, **2009**, 311, 634-637	1.6	25
230	Microstructure and high-temperature strength of B4C□iB2 composite prepared by a crucibleless zone melting method. *Journal of Alloys and Compounds*, **2009**, 485, 677-681	5.7	56
229	Low temperature thermal expansion, high temperature electrical conductivity, and mechanical properties of Nb4AlC3 ceramic synthesized by spark plasma sintering. *Journal of Alloys and Compounds*, **2009**, 487, 675-681	5.7	30
228	Simple preparation of silica and alumina with a hierarchical pore system via the dual-templating method. *Science and Technology of Advanced Materials*, **2009**, 10, 025002	7.1	17
227	Electric current activated/assisted sintering (): a review of patents 1906-2008. *Science and Technology of Advanced Materials*, **2009**, 10, 053001	7.1	307
226	Elucidation of Crystal-Chemical Determination Factor of Magnetic Anisotropy in HTSC. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 2965-2969	1.8	
225	Facile patterning of assembled silica nanoparticles with a closely packed arrangement through guided growth. *Journal of Materials Chemistry*, **2009**, 19, 1964		16
224	Laser-derived one-pot synthesis of silicon nanocrystals terminated with organic monolayers. *Chemical Communications*, **2009**, 4684-6	5.8	64
223	Texture development in 3 mol% yttria-stabilized tetragonal zirconia. *Materials Research Bulletin*, **2009**, 44, 1802-1805	5.1	13
222	Effect of starting powders on the sintering of nanostructured ZrO ceramics by colloidal processing. *Science and Technology of Advanced Materials*, **2009**, 10, 025004	7.1	25

221	Control of Texture in Diamagnetic Ceramics by Using a Strong Magnetic Field. *Materia Japan*, **2009**, 48, 321-326	0.1	
220	Pressure Effects on Temperature Distribution during Spark Plasma Sintering with Graphite Sample. *Materials Transactions*, **2009**, 50, 2111-2114	1.3	35
219	Effect of bead-milling treatment on the dispersion of tetragonal zirconia nanopowder and improvements of two-step sintering. *Journal of the Ceramic Society of Japan*, **2009**, 117, 470-474	1	13
218	Fabrication of Textured Hematite via Topotactic Transformation of Textured Goethite. *Applied Physics Express*, **2009**, 2, 101601	2.4	1
217	Fabrication of GDC/LSGM/GDC tri-layers on polypyrrole-coated NiO-YSZ by electrophoretic deposition for anode-supported SOFC. *Journal of the Ceramic Society of Japan*, **2009**, 117, 1246-1248	1	14
216	Aqueous dispersions of carbon nanotubes stabilized by zirconium acetate. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 662-5	1.3	6
215	Wavelength-selectivity in photochemical reaction between 1-alcohol and hydrogen-terminated silicon. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 666-9	1.3	10
214	Si3N4-TiN nanocomposite by nitration of TiSi2 and consolidation by hot pressing and spark plasma sintering. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 6381-9	1.3	14
213	Electrical conductivity of Gd-doped ceria with nano-sized grain. *Transactions of the Materials Research Society of Japan*, **2009**, 34, 555-559	0.2	2
212	FABRICATION OF FLUORAPATITE CERAMIC MATERIAL WITH SUBMICROME -45- TER-SIZED GRAINS AND ITS HIGH-TEMPERATURE PLASTIC DEFORMATION. *Phosphorus Research Bulletin*, **2009**, 23, 45-51	0.3	
211	Solution Synthesis of Luminescent Silicon Nanoparticles. *Journal of the Japan Society of Colour Material*, **2009**, 82, 516-521	0	
210	Influence of microstructure on the thermophysical properties of sintered SiC ceramics. *Journal of Alloys and Compounds*, **2008**, 463, 493-497	5.7	49
209	observation of magnetic orientation process of feeble magnetic materials under high magnetic fields. *Science and Technology of Advanced Materials*, **2008**, 9, 024211	7.1	12
208	Texturing of Si3N4 Ceramics via Strong Magnetic Field Alignment. *Key Engineering Materials*, **2008**, 368-372, 871-874	0.4	5
207	Electrophoretic deposition of Eu2+ doped Ca-.ALPHA.-SiAlON phosphor particles for packaging of flat pseudo-white light emitting devices. *Journal of the Ceramic Society of Japan*, **2008**, 116, 740-743	1	13
206	Fabrication of hierarchically porous spherical particles by assembling mesoporous silica nanoparticles via spray drying. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 3101-5	1.3	20
205	Textured silicon nitride: processing and anisotropic properties. *Science and Technology of Advanced Materials*, **2008**, 9, 033001	7.1	113
204	Effect of MgSiN2 addition on gas pressure sintering and thermal conductivity of silicon nitride with Y2O3. *Journal of the Ceramic Society of Japan*, **2008**, 116, 706-711	1	14

203	Spherical Mesoporous Silica Particles with Titanium Dioxide Nanoparticles by an Aerosol-assisted Coassembly. *Chemistry Letters*, **2008**, 37, 72-73	1.7	17
202	Effects of Initial Punch-Die Clearance in Spark Plasma Sintering Process. *Materials Transactions*, **2008**, 49, 2899-2906	1.3	11
201	Magnetically induced orientation of mesochannels inside porous anodic alumina membranes under ultra high magnetic field of 30 T: Confirmation by TEM. *Journal of the Ceramic Society of Japan*, **2008**, 116, 1244-1248	1	11
200	Rare-Earth-Dependent Magnetic Anisotropy in REBa2Cu3Oy. *Applied Physics Express*, **2008**, 1, 031701	2.4	21
199	Fluorescence detection and imaging of amino-functionalized organic monolayer. *Thin Solid Films*, **2008**, 516, 2541-2546	2.2	15
198	Liquid Manipulation Lithography to Fabricate a Multifunctional Microarray of Organosilanes on an Oxide Surface under Ambient Conditions. *Advanced Functional Materials*, **2008**, 18, 3049-3055	15.6	16
197	Exploration of a Standing Mesochannel System with Antimatter/Matter Atomic Probes. *Advanced Materials*, **2008**, 20, 4728-4733	24	15
196	Texturing behavior in sintered reaction-bonded silicon nitride via strong magnetic field alignment. *Journal of the European Ceramic Society*, **2008**, 28, 929-934	6	11
195	Nanoreactor engineering and SPS densification of multimetal oxide ceramic nanopowders. *Journal of the European Ceramic Society*, **2008**, 28, 919-927	6	15
194	Fabrication and some properties of textured alumina-related compounds by colloidal processing in high-magnetic field and sintering. *Journal of the European Ceramic Society*, **2008**, 28, 935-942	6	49
193	Texture development of hydroxyapatite ceramics by colloidal processing in a high magnetic field followed by sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 475, 27-33	5.3	20
192	CONTROL OF NANOSTRUCTURE OF MATERIALS **2008**, 177-265		
191	Highly Texturing □Sialon Via Strong Magnetic Field Alignment. *Journal of the American Ceramic Society*, **2008**, 91, 620-623	3.8	13
190	Conductive Polymer Coating on Nonconductive Ceramic Substrates for Use in the Electrophoretic Deposition Process. *Journal of the American Ceramic Society*, **2008**, 91, 1674-1677	3.8	23
189	Corrosion of ZrB2 Powder During Wet Processing □Analysis and Control. *Journal of the American Ceramic Society*, **2008**, 91, 1715-1717	3.8	23
188	Phosphate Esters as Dispersants for the Cathodic Electrophoretic Deposition of Alumina Suspensions. *Journal of the American Ceramic Society*, **2008**, 91, 1923-1926	3.8	17
187	Bubble-Free Aqueous Electrophoretic Deposition (EPD) by Pulse-Potential Application. *Journal of the American Ceramic Society*, **2008**, 91, 3154-3159	3.8	61
186	Hydrogen-Generation Materials for Portable Applications. *Journal of the American Ceramic Society*, **2008**, 91, 3825-3834	3.8	104

185	Fabrication of Highly Microstructure Controlled Ceramics by Novel Colloidal Processing. *Key Engineering Materials*, **2007**, 336-338, 2372-2377	0.4	
184	Flexible Polymer Colloidal-Crystal Lasers with a Light-Emitting Planar Defect. *Advanced Materials*, **2007**, 19, 2067-2072	24	94
183	Relation between microstructure, properties and spark plasma sintering (SPS) parameters of pure ultrafine WC powder. *Science and Technology of Advanced Materials*, **2007**, 8, 644-654	7.1	69
182	High-strain-rate superplasticity in oxide ceramics. *Science and Technology of Advanced Materials*, **2007**, 8, 578-587	7.1	34
181	Nano Ceramics Center, National Institute for Materials Science. *Science and Technology of Advanced Materials*, **2007**, 8, 571-577	7.1	2
180	Processing and properties of sintered reaction-bonded silicon nitride with Y2O3–MgSiN2: Effects of Si powder and Li2O addition. *Acta Materialia*, **2007**, 55, 5581-5591	8.4	31
179	Effect of Polyethylenimine on Hydrolysis and Dispersion Properties of Aqueous Si3N4 Suspensions. *Journal of the American Ceramic Society*, **2007**, 90, 797-804	3.8	38
178	Layer Structure of Textured CaBi4Ti4O15 Ceramics Fabricated by Slip Casting in High Magnetic Field. *Journal of the American Ceramic Society*, **2007**, 90, 1463-1466	3.8	16
177	Dispersion Behavior of ZrB2 Powder in Aqueous Solution. *Journal of the American Ceramic Society*, **2007**, 90, 3455-3459	3.8	37
176	Improvement of thermoelectric performance in magnetically c-axis-oriented bismuth-based cobaltites. *Scripta Materialia*, **2007**, 57, 333-336	5.6	7
175	Magnetically induced orientation of mesochannels in mesoporous silica films at 30 tesla. *Chemistry - an Asian Journal*, **2007**, 2, 1505-12	4.5	53
174	Thermophysical properties of porous SiC ceramics fabricated by pressureless sintering. *Science and Technology of Advanced Materials*, **2007**, 8, 655-659	7.1	61
173	Nano-explosion synthesis of multi-component ceramic nano-composites. *Journal of the European Ceramic Society*, **2007**, 27, 585-592	6	6
172	Preparation and Properties of Al2O3-Mullite-SiC Nano-Composite by Slip Casting in a High Magnetic Field and Reaction Sintering. *Key Engineering Materials*, **2007**, 336-338, 1133-1136	0.4	1
171	Microstructural examination in high-strain-rate superplastically deformed tetragonal ZrO2 dispersed with 30 vol% MgAl2O4 spinel. *Journal of Materials Research*, **2007**, 22, 801-813	2.5	5
170	Thermoelectric Properties and Magnetic Anisotropies of Magnetically Grain-Oriented Sr- or Bi-doped Ca3Co4O9 Thick Films. *Materials Research Society Symposia Proceedings*, **2007**, 1044, 1		
169	Aqueous Processing of Textured Silicon Nitride Ceramics by Slip Casting in a Strong Magnetic Field. *Materials Science Forum*, **2007**, 534-536, 1009-1012	0.4	3
168	Improvement of Thermoelectric Properties of p- and n-types Oxide Thick Films Fabricated by Electrophoretic Deposition. *Materials Research Society Symposia Proceedings*, **2007**, 1044, 1		

167	Hydrogen Storage Properties of Nb-Zr-Fe Alloys Disintegrated by Hydrogen Gas. *Materials Science Forum*, **2007**, 534-536, 73-76	0.4	
166	Direct Shaping of Alumina Ceramics by Electrophoretic Deposition Using Conductive Polymer-Coated Ceramic Substrates. *Advanced Materials Research*, **2007**, 29-30, 227-230	0.5	2
165	Fabrication and Some Properties of Textured Ceramics by Colloidal Processing in High Magnetic Field. *Key Engineering Materials*, **2007**, 352, 101-106	0.4	3
164	Synthesis and Properties of Multimetal Oxide Nanopowders via Nano-Explosive Technique. *Materials Science Forum*, **2007**, 534-536, 125-128	0.4	1
163	New Processing of Textured Ceramics by Colloidal Processing Under High Magnetic Field. *Key Engineering Materials*, **2007**, 280-283, 721-728	0.4	5
162	Preparation and Some Properties of Ni-TiN and Ni-TiC Nanocomposite Particles by DC Arc-Plasma. *Key Engineering Materials*, **2007**, 336-338, 2082-2085	0.4	
161	Effect of Milling Treatment on Texture Development of Hydroxyapatite Ceramics by Slip Casting in High Magnetic Field. *Materials Transactions*, **2007**, 48, 2861-2866	1.3	16
160	Fabrication of Textured α-SiC Using Colloidal Processing and a Strong Magnetic Field. *Materials Transactions*, **2007**, 48, 2883-2887	1.3	17
159	In Situ Microscopic Observations of Magnetic Field Effects on the Growth of Silver Dendrites. *Materials Transactions*, **2007**, 48, 2888-2892	1.3	4
158	Texturing Ca-.ALPHA.-Sialon Via Strong Magnetic Field Alignment. *Journal of the Ceramic Society of Japan*, **2007**, 115, 701-705	1	4
157	Large-Scale Patterning of TiO2 Nano Powders Using Micro Molds. *Journal of the Ceramic Society of Japan*, **2007**, 115, 697-700	1	7
156	Synthesis of Titania Thin Films by Cathodic Electrolytic Deposition. *Journal of the Ceramic Society of Japan*, **2007**, 115, 818-820	1	1
155	Preparation and Utilization of Fine Expanded Perlite. *Key Engineering Materials*, **2007**, 280-283, 701-706	0.4	1
154	Control of crystalline texture in polycrystalline TiO2 (Anatase) by electrophoretic deposition in a strong magnetic field. *Journal of the European Ceramic Society*, **2006**, 26, 559-563	6	44
153	A practical technique for the fabrication of highly ordered macroporous structures of inorganic oxides. *Materials Research Bulletin*, **2006**, 41, 268-273	5.1	19
152	Chiroptical Properties Induced in Chiral Photonic-Bandgap Liquid Crystals Leading to a Highly Efficient Laser-Feedback Effect. *Advanced Materials*, **2006**, 18, 775-780	24	62
151	Microstructural Design for Attaining High-Strain-Rate Superplasticity in Oxide Materials. *Advances in Science and Technology*, **2006**, 45, 923-932	0.1	0
150	High-Toughness Tetragonal Zirconia/Alumina Nano-Ceramics. *Key Engineering Materials*, **2006**, 317-318, 615-618	0.4	

149	Mechanical Properties of Textured Alumina Prepared by Colloidal Processing in a Strong Magnetic Field. *Materials Research Society Symposia Proceedings*, **2006**, 977, 1		
148	Fabrication of multilayered oxide thermoelectric modules by electrophoretic deposition under high magnetic fields. *Applied Physics Letters*, **2006**, 89, 081912	3.4	29
147	Highly controlled orientation of CaBi4Ti4O15 using a strong magnetic field. *Applied Physics Letters*, **2006**, 89, 132902	3.4	17
146	Magnetically induced orientation of mesochannels in 2D-hexagonal mesoporous silica films. *Journal of Materials Chemistry*, **2006**, 16, 3693		60
145	The Effect of Embedding Conditions on the Thermal Conductivity of .BETA.-Si3N4. *Journal of the Ceramic Society of Japan*, **2006**, 114, 1093-1096		8
144	Electrophoretic Deposition of Alumina on Conductive Polymer-Coated Ceramic Substrates. *Journal of the Ceramic Society of Japan*, **2006**, 114, 55-58		17
143	Texture Development in Si3N4 Ceramics by Magnetic Field Alignment during Slip Casting. *Journal of the Ceramic Society of Japan*, **2006**, 114, 979-987		31
142	Multiple nano-blast synthesis of PT/8Y-ZP composite nanopowders. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1625-31	1.3	3
141	Circularly polarized laser emission induced by supramolecular chirality in cholesteric liquid crystals. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1819-22	1.3	27
140	One-dimensional self-assembly of alkoxy-capped silicon nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 1823-5	1.3	7
139	Fabrication of Highly Microstructure Controlled Ceramics by Novel Colloidal Processing. *Journal of the Ceramic Society of Japan*, **2006**, 114, 371-376		22
138	Texture Development in Alumina Composites by Slip Casting in a Strong Magnetic Field. *Journal of the Ceramic Society of Japan*, **2006**, 114, 59-62		21
137	Micro-Scale Patterning of Ceramic Colloidal Suspension by Micro Molding in Capillaries (MIMIC) with Assistance of Highly Infiltrating Liquid. *Journal of the Ceramic Society of Japan*, **2006**, 114, 725-728		9
136	????????????????. *Materia Japan*, **2006**, 45, 640-643	0.1	
135	Nano-Blast Synthesis of Nano-size CeO2□d2O3 Powders. *Journal of the American Ceramic Society*, **2006**, 89, 1822-1826	3.8	17
134	Effect of polyethylenimine on the dispersion and electrophoretic deposition of nano-sized titania aqueous suspensions. *Journal of the European Ceramic Society*, **2006**, 26, 1555-1560	6	105
133	Mechanical properties of textured, multilayered alumina produced using electrophoretic deposition in a strong magnetic field. *Journal of the European Ceramic Society*, **2006**, 26, 661-665	6	24
132	Control of texture in alumina by colloidal processing in a strong magnetic field. *Science and Technology of Advanced Materials*, **2006**, 7, 356-364	7.1	90

131	Surface design of monolayer-template for reproducible microfabrication of metal oxide film. *Thin Solid Films*, **2006**, 499, 293-298	2.2	6
130	An efficient matrix that resists the nonspecific adsorption of protein to fabricate carbohydrate arrays on silicon. *Thin Solid Films*, **2006**, 499, 213-218	2.2	9
129	Control of the Texture in Feeble Magnetic Ceramics Using Colloidal Processing in a Strong Magnetic Field. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2006**, 53, 479-487	0.2	1
128	Assembly of hydrothermally synthesized tin oxide nanocrystals. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2005**, 23, 731-736	2.9	3
127	Orientation of mesochannels in continuous mesoporous silica films by a high magnetic field. *Journal of Materials Chemistry*, **2005**, 15, 1137		94
126	Rietveld Texture Analysis of Alumina Ceramics by Neutron Diffraction. *Chemistry of Materials*, **2005**, 17, 102-106	9.6	20
125	Nanoexplosion synthesis of multimetal oxide ceramic nanopowders. *Nano Letters*, **2005**, 5, 2598-604	11.5	28
124	CONTROL OF PARTICLE ORIENTATION OF HYDROXYAPATITE UNDER A HIGH MAGNETIC FIELD. *Phosphorus Research Bulletin*, **2005**, 19, 256-261	0.3	
123	Textured Development of Feeble Magnetic Ceramics by Colloidal Processing Under High Magnetic Field. *Journal of the Ceramic Society of Japan*, **2005**, 113, 26-36		203
122	Dispersion of SiC Suspensions with Cationic Dispersant of Polyethylenimine. *Journal of the Ceramic Society of Japan*, **2005**, 113, 584-587		13
121	Fracture Toughness of Yttria-Stabilized Cubic Zirconia (8Y-CSZ) Doped with Pure Silica. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2005**, 69, 928-932	0.4	
120	Synthesis and Characterization of Nanosize Ceria-Gadolinia Powders. *Journal of the Ceramic Society of Japan*, **2005**, 113, 101-106		10
119	Microstructural Design for High-Strain-Rate Superplastic Oxide Ceramics. *Journal of the Ceramic Society of Japan*, **2005**, 113, 191-197		20
118	Densification and Superplasticity of Hydroxyapatite Ceramics. *Journal of the Ceramic Society of Japan*, **2005**, 113, 669-673		22
117	Preparation and proton conductivity of monodisperse nanocrystals of pyrochlore-type antimonic acid and its niobium-substituted materials. *Electrochimica Acta*, **2005**, 50, 3205-3209	6.7	5
116	Electrophoretic deposition of lead zirconate titanate (PZT) powder from ethanol suspension prepared with phosphate ester. *Science and Technology of Advanced Materials*, **2005**, 6, 927-932	7.1	28
115	Sonochemical Preparation and Properties of Pt□Y-TZP Nano-Composites. *Journal of the American Ceramic Society*, **2005**, 88, 639-644	3.8	19
114	Modification of Al Particle Surfaces by □Al2O3 and Its Effect on the Corrosion Behavior of Al. *Journal of the American Ceramic Society*, **2005**, 88, 977-979	3.8	72

113	Preparation of oriented bulk 5 wt% Y2O3-AlN ceramics by slip casting in a high magnetic field and sintering. *Scripta Materialia*, **2005**, 52, 583-586	5.6	57
112	Fabrication of porous ceramics with controlled pore size by colloidal processing. *Science and Technology of Advanced Materials*, **2005**, 6, 915-920	7.1	46
111	Texture of Alumina by Neutron Diffraction and SEM-EBSD. *Materials Science Forum*, **2005**, 495-497, 1395-1400	0.4	11
110	Porous Al2O3/Al catalyst supports fabricated by an Al(OH)3/Al mixture and the effect of agglomerates. *Journal of Materials Research*, **2005**, 20, 672-679	2.5	4
109	High Strain-Rate Superplastic Flow in ZrO2-30vol% Spinel Composite. *Materials Science Forum*, **2005**, 475-479, 2977-2980	0.4	4
108	Fabrication of Grain-Aligned Bulks and Thick Films of Misfit Layered Cobalt Oxides by a Magneto-Scientific Process. *Materials Research Society Symposia Proceedings*, **2005**, 886, 1		
107	Development of Thermoelectric Bi-Based Cobaltites with an Easy Axis of Magnetization Parallel to theC-Axis for Magnetic Alignment. *Japanese Journal of Applied Physics*, **2005**, 44, L1263-L1266	1.4	13
106	Area-selective assembly of high crystalline tin-doped indium oxide particles onto monolayer template. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2005**, 23, 1146-1151	2.9	8
105	The Crystal Orientation Taking Account of Gravity Force under High Magnetic Field. *ISIJ International*, **2005**, 45, 997-1000	1.7	10
104	Effect of MgAl2O4 Spinel Dispersion on High-Strain-Rate Superplasticity in Tetragonal ZrO2 Polycrystal. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **2005**, 69, 356-361	0.4	
103	Role of Deformable Fine Spinel Particles in High-Strain-Rate Superplastic Flow of Tetragonal ZrO2. *Materials Research Society Symposia Proceedings*, **2004**, 821, 288		
102	High-Toughness Tetragonal Zirconia and Zirconia/Alumina Nano-Ceramics. *Key Engineering Materials*, **2004**, 264-268, 2347-2350	0.4	1
101	High-Strain Rate Superplastic Zirconia Systems. *Key Engineering Materials*, **2004**, 264-268, 285-288	0.4	
100	High-Strain-Rate Superplasticity in 3mol%-Y2O3-Stabilized Tetragonal ZrO2 Dispersed with 30vol% MgAl2O4 Spinel. *Materials Science Forum*, **2004**, 447-448, 329-334	0.4	6
99	Control of Texture in Al2O3 Composites by Slip Casting in a Strong Magnetic Field Followed by Heating. *Key Engineering Materials*, **2004**, 264-268, 245-248	0.4	1
98	Nonisothermal Synthesis of Yttria-Stabilized Zirconia Nanopowder through Oxalate Processing: I, Characteristics of Y-Zr Oxalate Synthesis and Its Decomposition. *Journal of the American Ceramic Society*, **2004**, 83, 2196-2202	3.8	42
97	Colloidal Processing and Ionic Conductivity of Fine-Grained Cupric-Oxide-Doped Tetragonal Zirconia. *Journal of the American Ceramic Society*, **2004**, 84, 2129-2131	3.8	5
96	Effect of Ultrasonication on the Microstructure and Tensile Elongation of Zirconia-Dispersed Alumina Ceramics Prepared by Colloidal Processing. *Journal of the American Ceramic Society*, **2004**, 84, 2132-2134	3.8	58

95	High-Strain-Rate Superplasticity in Y2O3-Stabilized Tetragonal ZrO2 Dispersed with 30 vol% MgAl2O4 Spinel. *Journal of the American Ceramic Society*, **2004**, 85, 1900-1902	3.8	34
94	Processing-Dependent Microstructural Factors Affecting Cavitation Damage and Tensile Ductility in a Superplastic Alumina Dispersed with Zirconia. *Journal of the American Ceramic Society*, **2004**, 85, 2763-2770	3.8	25
93	Strain Softening and Hardening during Superplastic-Like Flow in a Fine-Grained MgAl2O4 Spinel Polycrystal. *Journal of the American Ceramic Society*, **2004**, 87, 1102-1109	3.8	14
92	Alignment of TiO2 particles by electrophoretic deposition in a high magnetic field. *Materials Research Bulletin*, **2004**, 39, 2155-2161	5.1	16
91	Nano-engineering of zirconia□noble metals composites. *Journal of the European Ceramic Society*, **2004**, 24, 469-473	6	25
90	Fabrication of high-strain rate superplastic yttria-doped zirconia polycrystals by adding manganese and aluminum oxides. *Journal of the European Ceramic Society*, **2004**, 24, 449-453	6	35
89	Low-temperature preparation of lithium vanadium oxides by solution processing. *Journal of the European Ceramic Society*, **2004**, 24, 405-408	6	10
88	Preparation of porous materials with controlled pore size and porosity. *Journal of the European Ceramic Society*, **2004**, 24, 341-344	6	121
87	Electrophoretic deposition of alumina suspension in a strong magnetic field. *Journal of the European Ceramic Society*, **2004**, 24, 225-229	6	50
86	Fabrication of oriented □alumina from porous bodies by slip casting in a high magnetic field. *Solid State Ionics*, **2004**, 172, 341-347	3.3	28
85	Bone-like Layer Growth and Adhesion of Osteoblast-like Cells on Calcium-deficient Hydroxyapatite Synthesized at Different pH. *Materials Transactions*, **2004**, 45, 1782-1787	1.3	4
84	Effect of MgAl2O4 Spinel Dispersion on High-Strain-Rate Superplasticity in Tetragonal ZrO2 Polycrystal. *Materials Transactions*, **2004**, 45, 2073-2077	1.3	10
83	Fracture Toughness of Yttria-Stabilized Cubic Zirconia (8Y-CSZ) Doped with Pure Silica. *Materials Transactions*, **2004**, 45, 3324-3329	1.3	6
82	Hardness and Fracture Toughness of Alumina-Doped Tetragonal Zirconia with Different Yttria Contents. *Materials Transactions*, **2003**, 44, 2235-2238	1.3	28
81	Control of Crystal Orientation of Hydroxyapatite by Imposition of a High Magnetic Field. *Materials Transactions*, **2003**, 44, 1133-1137	1.3	96
80	Fabrication of Ordered Macroporous Structures Based on Hetero-Coagulation Process Using Nanoparticle as Building Blocks. *Chemistry Letters*, **2003**, 32, 276-277	1.7	10
79	Preparation of macroporous titania from nanoparticle building blocks and polymer templates. *Scripta Materialia*, **2003**, 49, 735-740	5.6	13
78	Electrophoretic deposition of aqueous nano-sized zinc oxide suspensions on a zinc electrode. *Materials Research Bulletin*, **2003**, 38, 207-212	5.1	42

77	Preparation and lithium insertion property of layered LixV2O5□nH2O. *Journal of Power Sources*, **2003**, 119-121, 201-204	8.9	3
76	Low-Temperature Processing and Mechanical Properties of Zirconia and Zirconia□Alumina Nanoceramics. *Journal of the American Ceramic Society*, **2003**, 86, 299-304	3.8	104
75	Role of the Initial Degree of Ionization of Polyethylenimine in the Dispersion of Silicon Carbide Nanoparticles. *Journal of the American Ceramic Society*, **2003**, 86, 189-191	3.8	60
74	Fabrication of Macroporous Alumina with Tailored Porosity. *Journal of the American Ceramic Society* , **2003**, 86, 2050-2054	3.8	83
73	Preparation and Some Electrical Properties of Yttrium-Doped Antimonic Acids. *Chemistry of Materials*, **2003**, 15, 928-934	9.6	20
72	Control of Texture in Electroceramics by Slip-Casting in a High Magnetic Field. *Key Engineering Materials*, **2003**, 248, 191-194	0.4	9
71	Control of Crystal Orientation of Hydroxyapatite by using a High Magnetic Field. *Key Engineering Materials*, **2003**, 240-242, 513-516	0.4	13
70	Electrophoretic deposition of □alumina particles in a strong magnetic field. *Journal of Materials Research*, **2003**, 18, 254-256	2.5	28
69	Electrophoretic deposition of aqueous nano-□Al2O3 suspensions. *Materials Research Bulletin*, **2002** , 37, 653-660	5.1	52
68	Electrophoretic Deposition Behavior of Aqueous Nanosized Zinc Oxide Suspensions. *Journal of the American Ceramic Society*, **2002**, 85, 2161-2165	3.8	65
67	Alignment of Titania Whisker by Colloidal Filtration in a High Magnetic Field. *Japanese Journal of Applied Physics*, **2002**, 41, L1416-L1418	1.4	54
66	Fabrication of Textured Titania by Slip Casting in a High Magnetic Field Followed by Heating. *Japanese Journal of Applied Physics*, **2002**, 41, L1272-L1274	1.4	71
65	Fabrication of Tailored Alumina-Based Ceramics Through Colloidal Processing. *Key Engineering Materials*, **2002**, 224-226, 619-622	0.4	3
64	Stabilization of Yttria Aqueous Suspension with Polyethylenimine and Electrophoretic Deposition.. *Journal of the Ceramic Society of Japan*, **2002**, 110, 840-843		15
63	Microstructure and Superplasticity in Various Zirconia-Dispersed Aluminas.. *Journal of the Ceramic Society of Japan*, **2002**, 110, 927-930		1
62	Electrical Conductivity of a 3Y-TZP/Alumina Laminate Composite Synthesized by Electrophoretic Deposition.. *Journal of the Ceramic Society of Japan*, **2002**, 110, 959-962		5
61	Control of Texture in ZnO by Slip Casting in a Strong Magnetic Field and Heating. *Chemistry Letters*, **2002**, 31, 1204-1205	1.7	62
60	Preferred Orientation of the Texture in the SiC Whisker-Dispersed Al2O3 Ceramics by Slip Casting in a High Magnetic Field.. *Journal of the Ceramic Society of Japan*, **2001**, 109, 886-890		36

59	Sintering and Ionic Conductivity of CuO-Doped Tetragonal ZrO2 Prepared by Novel Colloidal Processing.. *Journal of the Ceramic Society of Japan*, **2001**, 109, 1004-1009		6
58	Superplasticity in alumina enhanced by co-dispersion of 10% zirconia and 10% spinel particles. *Acta Materialia*, **2001**, 49, 887-895	8.4	44
57	A high-strain-rate superplastic ceramic. *Nature*, **2001**, 413, 288-91	50.4	217
56	Influence of Washing on Zirconia Powder for Electrophoretic Deposition. *Journal of the American Ceramic Society*, **2001**, 84, 666-668	3.8	19
55	Nonisothermal Synthesis of Yttria-Stabilized Zirconia Nanopowder through Oxalate Processing: II, Morphology Manipulation. *Journal of the American Ceramic Society*, **2001**, 84, 2484-2488	3.8	30
54	Synthesis and Colloidal Processing of Zirconia Nanopowder. *Journal of the American Ceramic Society* , **2001**, 84, 2489-2494	3.8	146
53	Hydroxide synthesis, colloidal processing and sintering of nano-size 3Y-TZP powder. *Scripta Materialia*, **2001**, 44, 2219-2223	5.6	32
52	Effect of cavitation on superplastic flow of 10% zirconia-dispersed alumina. *Scripta Materialia*, **2001** , 45, 61-67	5.6	8
51	High Temperature Deformation of a Yttria-Stabilized Tetragonal Zirconia. *Materials Science Forum*, **2001**, 357-359, 187-192	0.4	3
50	Fabrication of Textured Alumina through Slip Casting in a High Magnetic Field and Heating. *Key Engineering Materials*, **2001**, 206-213, 349-352	0.4	3
49	Dense, bubble-free ceramic deposits from aqueous suspensions by electrophoretic deposition. *Journal of Materials Research*, **2001**, 16, 321-324	2.5	85
48	Synthesis and Sintering of Zirconia Nano-Powder by Non-Isothermal Decomposition from Hydroxide.. *Journal of the Ceramic Society of Japan*, **2001**, 109, 500-505		16
47	Synthesis of Aligned Alumina by Slip Casting in a High Magnetic Field and Heat Treatment.. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2000**, 47, 1010-1014	0.2	16
46	Preparation, Electrical Properties, and Water Adsorption Behavior of (1-x)Sb2O5□xM2O3□hH2O (M = Al, Bi, and Y; 0 □x □1). *Materials Research Society Symposia Proceedings*, **2000**, 658, 911		
45	Enhanced superplasticity in a alumina-containing zirconia prepared by colloidal processing. *Scripta Materialia*, **2000**, 43, 705-710	5.6	45
44	Preparation of Polycrystalline Antimonic Acid Films by Electrophoretic Deposition. *Journal of Sol-Gel Science and Technology*, **2000**, 19, 595-598	2.3	3
43	The manufacturing process of fine Shirasu balloons using a fluidized sand-bed furnace. *Advanced Powder Technology*, **2000**, 11, 503-516	4.6	9
42	Cavity Damage Accumulation in Alumina Doped with Zirconia or Magnesia. *Materials Science Forum*, **1999**, 304-306, 431-436	0.4	8

41	Superplastic Tensile Ductility in a Zirconia-Dispersed Alumina Produced by Colloidal Processing. *Materials Science Forum*, **1999**, 304-306, 489-494	0.4	2
40	A grain-boundary diffusion model of dynamic grain growth during superplastic deformation. *Acta Materialia*, **1999**, 47, 3433-3439	8.4	52
39	Preparation Methods and Superplastic Properties of Fine-Grained Zirconia and Alumina Based Ceramics.. *Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal*, **1999**, 1999, 497-508		30
38	Effect of Ultrasonication on Colloidal Dispersion of Al2O3 and ZrO2 Powders in pH Controlled Suspension. *Materials Transactions, JIM*, **1998**, 39, 689-692		21
37	Preparation and Properties of Lightweight Pottery Using Shirasuballoon. *Journal of the Ceramic Society of Japan*, **1998**, 106, 333-338		6
36	Colloidal Processing for Fine Particles of Al2O3-15vol% ZrO2 System.. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **1997**, 44, 356-361	0.2	11
35	Properties of Fine Shirasuballoons. *Journal of the Ceramic Society of Japan*, **1997**, 105, 79-84		3
34	Hydrogen sorption-desorption characteristics of mixed and composite Ni?TiN nanoparticles. *Scripta Materialia*, **1996**, 7, 341-353		12
33	Preparation and Characterization of Fine Shirasuballoons. *Journal of the Ceramic Society of Japan*, **1996**, 104, 963-968		9
32	Hydrogen desorption characteristics of composite Co-TiN nanoparticles. *Applied Surface Science*, **1996**, 100-101, 232-237	6.7	11
31	Processing of Silicon Carbide-Mullite-Alumina Nanocomposites. *Journal of the American Ceramic Society*, **1995**, 78, 479-486	3.8	53
30	Preparation of Fine Shirasuballoons from Vitric Volcaniclastic Materials.. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **1995**, 42, 1128-1135	0.2	8
29	Pressure Filtration of Al2O3 Small Powder.. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **1995**, 42, 309-313	0.2	3
28	Characterization of the Surface Oxide Layer of Iron Ultrafine Particles.. *Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal*, **1993**, 1993, 92-97		3
27	Zirconium–Hafnium Interdiffusion in Polycrystalline Fluorite-Cubic CeO2-ZrO2-HfO2 Solid Solution. *Journal of the American Ceramic Society*, **1993**, 76, 1381-1383	3.8	5
26	Effects of cold isostatic pressure on the sintering behaviour of nickel ultrafine powders. *Journal of Alloys and Compounds*, **1992**, 190, 31-33	5.7	4
25	Oxidation and Degradation of Titanium Nitride Ultrafine Powders Exposed to Air. *Journal of the American Ceramic Society*, **1992**, 75, 244-248	3.8	30
24	Cation Interdiffusion and Phase Stability in Polycrystalline Tetragonal Ceria–Zirconia–Hafnia Solid Solution. *Journal of the American Ceramic Society*, **1991**, 74, 2610-2614	3.8	57

23	Effects of cold isostatic pressures on the sintering behaviour of iron and copper ultrafine powders. *Journal of Materials Science Letters*, **1991**, 10, 426-428		4
22	Sintering characteristics of cobalt ultrafine powders. *Journal of the Less Common Metals*, **1991**, 168, 277-287		8
21	Surface Phases of Iron Ultrafine Powders Estimated from Thermal Desorption Measurements and Their Reduction Characteristics. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **1991**, 55, 219-226	0.4	11
20	Gas adsorption and desorption characteristics of oxide superconducting powders.. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **1990**, 37, 761-764	0.2	2
19	Sintering and Gas Desorption Characteristics of Copper Ultrafine Powders. *Materials Transactions, JIM*, **1990**, 31, 802-809		9
18	Mechanical and magnetic properties of the rapidly quenched Cu2MnAl. *Journal of Materials Science*, **1990**, 25, 2549-2556	4.3	5
17	Sorption and Desorption Characteristics of Water Vapour on YBa2Cu3O7-xPowders. *Japanese Journal of Applied Physics*, **1990**, 29, L2022-L2025	1.4	5
16	Gas Evolution and Densification during Sintering of Ultrafine Copper Powders. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **1989**, 53, 422-428	0.4	5
15	Synthesis and Characterization of the Mixed and the Composite Ni-TiN Utrafine Particles **1989**, 203-212		
14	Improvement of the hard magnetic properties in Mn-Al-X (X = C, Ti) systems by twin-roll quenching. *Journal of Materials Science Letters*, **1989**, 8, 1123-1126		
13	Permanent deformation of (Co, Ni)Zr intermetallic compounds through phase transformation. *Journal of Materials Science*, **1989**, 24, 2891-2897	4.3	2
12	Reduction and sintering of ultrafine copper powders. *Journal of Materials Science Letters*, **1989**, 8, 273-276		5
11	Cation Interdiffusion in Polycrystalline Cubic C-Type YttriaZirconiaHafnia Solid Solutions. *Journal of the American Ceramic Society*, **1989**, 72, 2121-2125	3.8	15
10	Low-temperature sintering and gas desorption of gold ultrafine powders. *Journal of the Less Common Metals*, **1989**, 147, 89-96		24
9	Sintering and Gas Release of Ag Ultrafine Powders. *Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals*, **1989**, 53, 614-620	0.4	14
8	Sintering of Copper Ultrafine Powders **1989**, 193-202		
7	Compressive deformation of CoZr and (Co,Ni)Zr intermetallic compounds with B2 structure. *Journal of Materials Science*, **1988**, 23, 4041-4048	4.3	35
6	Superconducting and Transport Properties of B-Y-Cu-O Compounds -Orthorhombic and Tetragonal Phases. *Japanese Journal of Applied Physics*, **1987**, 26, L721-L723	1.4	47

5	Enhancement of MgO Evaporation from MgO-Stabilized ZrO2 by Grain-Boundary Diffusion. *Journal of the American Ceramic Society*, **1986**, 69, 111-113	3.8	10
4	Cation Interdiffusion in Polycrystalline Fluorite-cubic MgO-ZrO2Solid Solution. *Bulletin of the Chemical Society of Japan*, **1982**, 55, 420-422	5.1	18
3	Tri-axial Grain Orientation of Y2Ba4Cu7OyAchieved by the Magneto-science Method. *Applied Physics Express*,1, 111701	2.4	44
2	Fabrication of Grain-Aligned Thick Films of Thermoelectric Oxides by an Electrophoretic Deposition Method under High Magnetic Fields. *Ceramic Transactions*,255-266	0.1	
1	Micro-Patterning of Tin Oxide by Micro-Molding in Capillaries. *Ceramic Transactions*,251-256	0.1	