Tatsuki Ohji

List of Publications by Citations

339 papers	7,872 citations	48 h-index	78 g-index
347 ext. papers	8,415 ext. citations	3 avg, IF	5.94 L-index

#	Paper	IF	Citations
339	Macro-porous ceramics: processing and properties. *International Materials Reviews*, **2012**, 57, 115-131	16.1	419
338	Synthesis of Porous Ceramics with Complex Pore Structure by Freeze-Dry Processing. *Journal of the American Ceramic Society*, **2001**, 84, 230-232	3.8	344
337	Formation and photocatalytic application of ZnO nanotubes using aqueous solution. *Langmuir*, **2010**, 26, 2811-5	4	222
336	Reactive Hot Pressing of ZrB2SiC Composites. *Journal of the American Ceramic Society*, **2004**, 83, 2330-2332	3.8	216
335	Synthesis of Porous Silicon Nitride with Unidirectionally Aligned Channels Using Freeze-Drying Process. *Journal of the American Ceramic Society*, **2002**, 85, 2151-2155	3.8	211
334	Strengthening and Toughening Mechanisms of Ceramic Nanocomposites. *Journal of the American Ceramic Society*, **2005**, 81, 1453-1460	3.8	206
333	Pore structure of porous ceramics synthesized from water-based slurry by freeze-dry process. *Journal of Materials Science*, **2001**, 36, 2523-2527	4.3	172
332	Oxidation bonding of porous silicon carbide ceramics. *Journal of Materials Science*, **2002**, 37, 3615-3622	4.3	143
331	Fabrication and characterization of highly porous mullite ceramics. *Materials Chemistry and Physics*, **2003**, 80, 610-614	4.4	142
330	Microstructure and Mechanical Properties of Porous Alumina Ceramics Fabricated by the Decomposition of Aluminum Hydroxide. *Journal of the American Ceramic Society*, **2001**, 84, 2638-2644	3.8	137
329	Fabrication and characterisation of porous silicon nitride ceramics using Yb2O3 as sintering additive. *Journal of the European Ceramic Society*, **2003**, 23, 371-378	6	136
328	Tensile Creep Behavior of Alumina/Silicon Carbide Nanocomposite. *Journal of the American Ceramic Society*, **1994**, 77, 3259-3262	3.8	111
327	Boron carbide and nitride as reactants for in situ synthesis of boride-containing ceramic composites. *Journal of the European Ceramic Society*, **2004**, 24, 171-178	6	109
326	Microstructure and Mechanical Properties of Silicon Nitride Ceramics with Controlled Porosity. *Journal of the American Ceramic Society*, **2002**, 85, 1512-1516	3.8	107
325	High-Surface-Area Alumina Ceramics Fabricated by the Decomposition of Al(OH)3. *Journal of the American Ceramic Society*, **2001**, 84, 485-491	3.8	101
324	Fabrication and properties of ultra highly porous silicon carbide by the gelation freezing method. *Journal of the European Ceramic Society*, **2010**, 30, 2889-2896	6	99
323	High-Strength Porous Silicon Carbide Ceramics by an Oxidation-Bonding Technique. *Journal of the American Ceramic Society*, **2004**, 85, 2852-2854	3.8	94

322	Thermal Shock Behavior of Porous Silicon Carbide Ceramics. *Journal of the American Ceramic Society*, **2002**, 85, 2125-2127	3.8	92
321	Influence of YttriaAlumina Content on Sintering Behavior and Microstructure of Silicon Nitride Ceramics. *Journal of the American Ceramic Society*, **2004**, 83, 2094-2096	3.8	89
320	Effect of Agglomeration on Mechanical Properties of Porous Zirconia Fabricated by Partial Sintering. *Journal of the American Ceramic Society*, **2002**, 85, 1961-1965	3.8	88
319	Particle/Matrix Interface and Its Role in Creep Inhibition in Alumina/Silicon Carbide Nanocomposites. *Journal of the American Ceramic Society*, **1996**, 79, 33-45	3.8	87
318	Reinforcement by crack-tip blunting in porous ceramics. *Journal of the European Ceramic Society*, **2004**, 24, 2055-2059	6	86
317	Fabrication of Porous Ceramics with Unidirectionally Aligned Continuous Pores. *Journal of the American Ceramic Society*, **2004**, 84, 1395-1397	3.8	82
316	Fracture Resistance Behavior of Highly Anisotropic Silicon Nitride. *Journal of the American Ceramic Society*, **1995**, 78, 3125-3128	3.8	81
315	Chemical Reactions, Anisotropic Grain Growth and Sintering Mechanisms of Self-Reinforced ZrB2SiC Doped with WC. *Journal of the American Ceramic Society*, **2011**, 94, 1575-1583	3.8	80
314	Effect of Sintering Additives on Microstructure and Mechanical Properties of Porous Silicon Nitride Ceramics. *Journal of the American Ceramic Society*, **2006**, 89, 3843-3845	3.8	77
313	Fabrication of Low-Shrinkage, Porous Silicon Nitride Ceramics by Addition of a Small Amount of Carbon. *Journal of the American Ceramic Society*, **2004**, 84, 1639-1641	3.8	67
312	Porous Silicon Nitride Ceramics Prepared by ReductionNitridation of Silica. *Journal of the American Ceramic Society*, **2005**, 88, 2594-2596	3.8	66
311	High performance porous silicon nitrides. *Journal of the European Ceramic Society*, **2002**, 22, 2489-2494	6	65
310	NonoxideBoron nitride composites: in situ synthesis, microstructure and properties. *Journal of the European Ceramic Society*, **2002**, 22, 2551-2554	6	65
309	Synthesis of fibrous Si3N4 structured porous ceramics using carbothermal nitridation of silica. *Acta Materialia*, **2005**, 53, 2981-2990	8.4	63
308	Reaction mechanism and microstructure development of strain tolerant in situ SiCBN composites. *Acta Materialia*, **2001**, 49, 77-82	8.4	63
307	Porosity and microstructure control of porous ceramics by partial hot pressing. *Journal of Materials Research*, **2001**, 16, 1916-1918	2.5	62
306	Development of high-thermal-conductivity silicon nitride ceramicsPeer review under responsibility of The Ceramic Society of Japan and the Korean Ceramic Society.View all notes. *Journal of Asian Ceramic Societies*, **2015**, 3, 221-229	2.4	61
305	Microstructural design and mechanical properties of porous silicon nitride ceramics. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 498, 5-11	5.3	61

304	Development of Oxide-Based EBC for Silicon Nitride. *International Journal of Applied Ceramic Technology*, **2005**, 1, 362-373	2	61
303	Strengthening of Porous Alumina by Pulse Electric Current Sintering and Nanocomposite Processing. *Journal of the American Ceramic Society*, **2004**, 83, 1314-1316	3.8	59
302	Oxidation bonding of porous silicon carbide ceramics with synergistic performance. *Journal of the European Ceramic Society*, **2004**, 24, 331-334	6	59
301	Comparison of Mechanical Properties of Silicon Nitrides with Controlled Porosities Produced by Different Fabrication Routes. *Journal of the American Ceramic Society*, **2005**, 88, 698-706	3.8	58
300	Recession behavior of Yb2Si2O7 phase under high speed steam jet at high temperatures. *Corrosion Science*, **2008**, 50, 178-182	6.8	55
299	Thermal Shock Behavior of Isotropic and Anisotropic Porous Silicon Nitride. *Journal of the American Ceramic Society*, **2003**, 86, 738-40	3.8	55
298	Superplastic Sinter-Forging of Silicon Nitride with Anisotropic Microstructure Formation. *Journal of the American Ceramic Society*, **1999**, 82, 1067-1069	3.8	54
297	Multineedle TiO2 Nanostructures, Self-Assembled Surface Coatings, and Their Novel Properties. *Crystal Growth and Design*, **2010**, 10, 913-922	3.5	53
296	Fracture Energy of an Aligned Porous Silicon Nitride. *Journal of the American Ceramic Society*, **2004**, 83, 1807-1809	3.8	53
295	New Uniformly Porous CaZrO3/MgO Composites with Three-Dimensional Network Structure from Natural Dolomite. *Journal of the American Ceramic Society*, **2004**, 83, 2091-2093	3.8	52
294	In Situ Reaction Synthesis of Silicon CarbideBoron Nitride Composites. *Journal of the American Ceramic Society*, **2004**, 84, 1475-1479	3.8	51
293	Tensile Creep and Creep Rupture Behavior of Monolithic and SiC-Whisker-Reinforced Silicon Nitride Ceramics. *Journal of the American Ceramic Society*, **1993**, 76, 3105-3112	3.8	51
292	Triblock copolymer templated semi-crystalline mesoporous titania films containing emulsion-induced macropores. *Journal of Materials Chemistry*, **2009**, 19, 1894		50
291	Tin oxide nanosheet assembly for hydrophobic/hydrophilic coating and cancer sensing. *ACS Applied Materials & Interfaces*, **2012**, 4, 1666-74	9.5	47
290	Rapid Rate Sintering of Nano-grained ZrO2-based Composites Using Pulse Electric Current Sintering Method. *Journal of Materials Science Letters*, **1998**, 17, 1389-1391		47
289	Connectivity of PS-b-PEO templated spherical pores in titanium oxide films. *Physical Chemistry Chemical Physics*, **2011**, 13, 12529-35	3.6	45
288	Strengthening and Toughening of Silicon Nitride by Superplastic Deformation. *Journal of the American Ceramic Society*, **2005**, 81, 713-716	3.8	44
287	Rapid fabrication of mesoporous titania films with controlled macroporosity to improve photocatalytic property. *Chemistry - an Asian Journal*, **2009**, 4, 1486-93	4.5	43

286	Micropatterning of ZnO nanoarrays by forced hydrolysis of anhydrous zinc acetate. *Langmuir*, **2008**, 24, 7614-7	4	43
285	Synthesis and properties of porous Si3N4/SiC nanocomposites by carbothermal reaction between Si3N4 and carbon. *Acta Materialia*, **2002**, 50, 4831-4840	8.4	42
284	Fabrication of porous Al2O3 by microwave sintering and its properties. *Materials Letters*, **2001**, 48, 215-218	3.5	42
283	Macroporous Ceramics by Gelation Freezing Route Using Gelatin. *Advanced Engineering Materials*, **2014**, 16, 607-620	3.5	41
282	Dissolution Recrystallization Induced Hierarchical Structure in ZnO: Bunched Roselike and Core Shell-like Particles. *Crystal Growth and Design*, **2010**, 10, 626-631	3.5	38
281	Reactive synthesis of alumina-boron nitride composites. *Acta Materialia*, **2004**, 52, 1823-1835	8.4	38
280	Synthesis of Porous Si3N4 Ceramics with Rod-Shaped Pore Structure. *Journal of the American Ceramic Society*, **2005**, 88, 1030-1032	3.8	38
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278	Synthesis and Properties of Porous Single-Phase -SiAlON Ceramics. *Journal of the American Ceramic Society*, **2004**, 85, 1879-1881	3.8	34
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274	Pressureless sintering mechanisms and mechanical properties of hafnium diboride ceramics with pre-sintering heat treatment. *Scripta Materialia*, **2010**, 62, 159-162	5.6	31
273	Comparison of fracture resistance as measured by the indentation fracture method and fracture toughness determined by the single-edge-precracked beam technique using silicon nitrides with different microstructures. *Journal of the European Ceramic Society*, **2007**, 27, 2347-2354	6	31
272	Corrosion and recession of mullite in water vapor environment. *Journal of the European Ceramic Society*, **2008**, 28, 431-435	6	31
271	High-strength porous silicon nitride fabricated by the sinter-forging technique. *Journal of Materials Research*, **2001**, 16, 32-34	2.5	31
270	Reactive Synthesis of a Porous Calcium Zirconate/Spinel Composite with Idiomorphic Spinel Grains. *Journal of the American Ceramic Society*, **2003**, 86, 1128-1131	3.8	30
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262	Phase transformation, microstructure and mechanical properties of Si3N4/SiC composite. *Journal of the European Ceramic Society*, **2001**, 21, 2179-2183	6	26
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259	Sol□gel synthesis and coating of nanocrystalline Lu2Si2O7 on Si3N4 substrate. *Materials Chemistry and Physics*, **2004**, 84, 192-195	4.4	25
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257	Role of Zr(OH)4 hard agglomerates in fabricating porous ZrO2 ceramics and the reinforcing mechanisms. *Acta Materialia*, **2003**, 51, 731-739	8.4	24
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251	Yielding phenomena of hot-pressed Si3N4. *High Temperature Technology*, **1987**, 5, 139-144		22

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248	High-Performance Boron Nitride-Containing Composites by Reaction Synthesis for the Applications in the Steel Industry. *International Journal of Applied Ceramic Technology*, **2005**, 2, 162-171	2	21
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237	Eftect of Y2O3-Al2O3 Additive on the Phase Formation and Densification Process of In Situ SiC-BN Composite.. *Journal of the Ceramic Society of Japan*, **2001**, 109, 45-48		19
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213	Corrosion and recession behavior of zircon in water vapor environment at high temperature. *Corrosion Science*, **2007**, 49, 1162-1171	6.8	14
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