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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

439 papers	13,525 citations	59 h-index	99 g-index
479 ext. papers	15,343 ext. citations	6.6 avg, IF	6.64 L-index

#	Paper	IF	Citations
439	A silicoboron carbonitride ceramic stable to 2,000°C. <i>Nature</i> , 1996 , 382, 796-798	50.4	578
438	Synthesis of cubic silicon nitride. <i>Nature</i> , 1999 , 400, 340-342	50.4	549
437	Silazane derived ceramics and related materials. <i>Materials Science and Engineering Reports</i> , 2000 , 26, 97-199	30.9	361
436	Silicon-Based Polymer-Derived Ceramics: Synthesis Properties and Applications-A Review. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 425-444		333
435	In situ and operando spectroscopy for assessing mechanisms of gas sensing. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3826-48	16.4	288
434	Synthesis of cubic zirconium and hafnium nitride having Th3P4 structure. <i>Nature Materials</i> , 2003 , 2, 185-27		268
433	A covalent micro/nano-composite resistant to high-temperature oxidation. <i>Nature</i> , 1995 , 374, 526-528	50.4	266
432	Silicon-containing polymer-derived ceramic nanocomposites (PDC-NCs): preparative approaches and properties. <i>Chemical Society Reviews</i> , 2012 , 41, 5032-52	58.5	229
431	Polymer-Derived Ceramics: 40 Years of Research and Innovation in Advanced Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, no-no	3.8	209
430	Amorphous Silicoboron Carbonitride Ceramic with Very High Viscosity at Temperatures above 1500°C. <i>Journal of the American Ceramic Society</i> , 1998 , 81, 3341-3344	3.8	208
429	Polymer-derived SiCN and SiOC ceramics structure and energetics at the nanoscale. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3826	13	207
428	High-pressure chemistry of nitride-based materials. <i>Chemical Society Reviews</i> , 2006 , 35, 987-1014	58.5	185
427	Amorphous Si(Al)OC ceramic from polysiloxanes: bulk ceramic processing, crystallization behavior and applications. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 3471-3482	6	159
426	Newtonian Viscosity of Amorphous Silicon Carbonitride at High Temperature. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1349-1352	3.8	147
425	Polymer-Derived SiOC/ZrO2 Ceramic Nanocomposites with Excellent High-Temperature Stability. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 241-250	3.8	142
424	The First Crystalline Solids in the Ternary Si-C-N System. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 603-606		139
423	Visible light photocatalysis with c-WO(3-x)/WO3·H2O nanoheterostructures in situ formed in mesoporous polycarbosilane-siloxane polymer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4467-73	16.4	134

4 ²²	Thermal cross-linking and pyrolytic conversion of poly(ureamethylvinyl)silazanes to silicon-based ceramics. <i>Applied Organometallic Chemistry</i> , 2001 , 15, 820-832	3.1	132
4 ²¹	²⁹ Si and ¹³ C Solid-State NMR Spectroscopic Study of Nanometer-Scale Structure and Mass Fractal Characteristics of Amorphous Polymer Derived Silicon Oxycarbide Ceramics. <i>Chemistry of Materials</i> , 2010 , 22, 6221-6228	9.6	130
4 ²⁰	Carbon-rich SiCN ceramics derived from phenyl-containing poly(silylcarbodiimides). <i>Journal of the European Ceramic Society</i> , 2009 , 29, 2873-2883	6	125
4 ¹⁹	Elastic Moduli and Hardness of Cubic Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 86-90	3.8	122
4 ¹⁸	Pressureless synthesis of fully dense and crack-free SiOC bulk ceramics via photo-crosslinking and pyrolysis of a polysiloxane. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 913-919	6	120
4 ¹⁷	Inorganic Solid-State Chemistry with Main Group Element Carbodiimides. <i>Chemistry of Materials</i> , 1998 , 10, 2964-2979	9.6	120
4 ¹⁶	Progress in silicon-based non-oxide structural ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , 1997 , 15, 13-47	4.1	118
4 ¹⁵	Silicon carbonitride ceramics derived from polysilazanes Part II. Investigation of electrical properties. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 1365-1374	6	117
4 ¹⁴	Silicon oxycarbide glasses and glass-ceramics: All-Rounder Materials for advanced structural and functional applications. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4817-4856	3.8	115
4 ¹³	Crystallization Behavior of Amorphous Silicon Carbonitride Ceramics Derived from Organometallic Precursors. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2170-2178	3.8	109
4 ¹²	Novel Silicon-Boron-Carbon-Nitrogen Materials Thermally Stable up to 2200°C. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2179-2183	3.8	106
4 ¹¹	Mechanical characterization of a polysiloxane-derived SiOC glass. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 397-403	6	94
4 ¹⁰	Polymer-derived Si-based bulk ceramics, part I: Preparation, processing and properties. <i>Journal of the European Ceramic Society</i> , 1995 , 15, 703-715	6	93
4 ⁰⁹	Oxidation Kinetics of an Amorphous Silicon Carbonitride Ceramic. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1803-1810	3.8	92
4 ⁰⁸	The fate and role of in situ formed carbon in polymer-derived ceramics. <i>Progress in Materials Science</i> , 2020 , 109, 100623	42.2	92
4 ⁰⁷	Lithium insertion into dense and porous carbon-rich polymer-derived SiOC ceramics. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2495-2503	6	87
4 ⁰⁶	High Rate Capability of SiOC Ceramic Aerogels with Tailored Porosity as Anode Materials for Li-ion Batteries. <i>Electrochimica Acta</i> , 2015 , 157, 41-45	6.7	84
4 ⁰⁵	New Insights in to the Lithium Storage Mechanism in Polymer Derived SiOC Anode Materials. <i>Electrochimica Acta</i> , 2014 , 119, 78-85	6.7	83

404	Processing route dramatically influencing the nanostructure of carbon-rich SiCN and SiBCN polymer-derived ceramics. Part I: Low temperature thermal transformation. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 1857-1866	6	81
403	Piezoresistive Effect in SiOC Ceramics for Integrated Pressure Sensors. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 920-924	3.8	79
402	Potassium melonate, $K_3[C_6N_7(NCN)_3] \cdot 5H_2O$, and its potential use for the synthesis of graphite-like C ₃ N ₄ materials. <i>New Journal of Chemistry</i> , 2005 , 29, 693	3.6	74
401	Single-source-precursor synthesis of dense SiC/HfC(x)N(1-x)-based ultrahigh-temperature ceramic nanocomposites. <i>Nanoscale</i> , 2014 , 6, 13678-89	7.7	72
400	Structure and Electronic Transport Properties of Si-(B)-C-N Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2260-2264	3.8	72
399	Chemical formation of ceramics. <i>Ceramics International</i> , 1996 , 22, 233-239	5.1	72
398	Pressureless fabrication of dense monolithic SiC ceramics from a polycarbosilane. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3571-3578	6	71
397	Possible superhardness of CrB ₄ . <i>Inorganic Chemistry</i> , 2013 , 52, 540-2	5.1	71
396	Metastability of corundum-type In ₂ O ₃ . <i>Chemistry - A European Journal</i> , 2008 , 14, 3306-10	4.8	70
395	Stable SiOC/Sn Nanocomposite Anodes for Lithium-Ion Batteries with Outstanding Cycling Stability. <i>Advanced Functional Materials</i> , 2014 , 24, 4097-4104	15.6	69
394	Nanodomain Structure of Carbon-Rich Silicon Carbonitride Polymer-Derived Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1169-1175	3.8	69
393	Carbon-rich SiOC anodes for lithium-ion batteries: Part I. Influence of material UV-pre-treatment on high power properties. <i>Solid State Ionics</i> , 2012 , 225, 522-526	3.3	67
392	A novel carbon material derived from pyridine-Borane. <i>Advanced Materials</i> , 1991 , 3, 551-552	24	66
391	Nanoporous Silicon Oxycarbonitride Ceramics Derived from Polysilazanes In situ Modified with Nickel Nanoparticles. <i>Chemistry of Materials</i> , 2011 , 23, 4112-4123	9.6	65
390	Single-source-precursor derived RGO/CNTs-SiCN ceramic nanocomposite with ultra-high electromagnetic shielding effectiveness. <i>Acta Materialia</i> , 2017 , 130, 83-93	8.4	64
389	Single-source-precursor synthesis of hafnium-containing ultrahigh-temperature ceramic nanocomposites (UHTC-NCs). <i>Inorganic Chemistry</i> , 2014 , 53, 10443-55	5.1	64
388	Nanostructure and Energetics of Carbon-Rich SiCN Ceramics Derived from Polysilylcarbodiimides: Role of the Nanodomain Interfaces. <i>Chemistry of Materials</i> , 2012 , 24, 1181-1191	9.6	64
387	Lithium insertion into carbon-rich SiOC ceramics: Influence of pyrolysis temperature on electrochemical properties. <i>Journal of Power Sources</i> , 2013 , 244, 450-455	8.9	63

386	Electrochemical studies of carbon-rich polymer-derived SiCN ceramics as anode materials for lithium-ion batteries. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 3235-3243	6	63
385	SiCN/C-ceramic composite as anode material for lithium ion batteries. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 3903-3908	6	63
384	Introduction to the Special Topical Issue on Ultrahigh-Temperature Polymer-Derived Ceramics. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2158-2159	3.8	62
383	Determination of the chemical diffusion coefficient of Li-ions in carbon-rich silicon oxycarbide anodes by electro-analytical methods. <i>Electrochimica Acta</i> , 2014 , 115, 665-670	6.7	60
382	Carbon-rich SiOC anodes for lithium-ion batteries: Part II. Role of thermal cross-linking. <i>Solid State Ionics</i> , 2012 , 225, 527-531	3.3	60
381	Polymer-derived-SiCN ceramic/graphite composite as anode material with enhanced rate capability for lithium ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 6412-6418	8.9	60
380	Boron-modified Inorganic Polymers Precursors for the Synthesis of Multicomponent Ceramics. <i>Applied Organometallic Chemistry</i> , 1996 , 10, 241-256	3.1	59
379	Electrochemical study of lithium insertion into carbon-rich polymer-derived silicon carbonitride ceramics. <i>Electrochimica Acta</i> , 2010 , 56, 174-182	6.7	57
378	Silicon carbonitride ceramics derived from polysilazanes Part I. Investigation of compositional and structural properties. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 1355-1364	6	57
377	Highly Porous Silicon Embedded in a Ceramic Matrix: A Stable High-Capacity Electrode for Li-Ion Batteries. <i>ACS Nano</i> , 2017 , 11, 11409-11416	16.7	56
376	Template-free synthesis of polymer-derived mesoporous SiOC/TiO ₂ and SiOC/N-doped TiO ₂ ceramic composites for application in the removal of organic dyes from contaminated water. <i>Applied Catalysis B: Environmental</i> , 2012 , 115-116, 303-313	21.8	56
375	Polymer Derived SiBCN Ceramics: 30 Years of Research. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800360	3.5	55
374	Crystallization behaviour of amorphous silicon nitride. <i>Journal of the European Ceramic Society</i> , 1991 , 7, 21-25	6	55
373	Thermal decomposition of carbon-rich polymer-derived silicon carbonitrides leading to ceramics with high specific surface area and tunable micro- and mesoporosity. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 477-484	6	52
372	Electrochemical performance of DVB-modified SiOC and SiCN polymer-derived negative electrodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013 , 106, 101-108	6.7	52
371	Tailoring of SiOC composition as a way to better performing anodes for Li-ion batteries. <i>Solid State Ionics</i> , 2014 , 260, 94-100	3.3	51
370	Strong influence of polymer architecture on the microstructural evolution of hafnium-alkoxide-modified silazanes upon ceramization. <i>Small</i> , 2011 , 7, 970-8	11	51
369	Preparation of Non-Oxidic Silicon Ceramics by an Anhydrous Sol-Gel Process. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 384-386		51

368	Polymer-Derived Silicon Oxycarbide/Hafnia Ceramic Nanocomposites. Part I: Phase and Microstructure Evolution During the Ceramization Process. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1774	3.8	50
367	Synthesis and thermally induced ceramization of a non-oxidic poly(methylsilsesquicarbodi-imide) gel. <i>Applied Organometallic Chemistry</i> , 1997 , 11, 833-841	3.1	50
366	Polymer-derived mesoporous SiOC/ZnO nanocomposite for the purification of water contaminated with organic dyes. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 330-338	5.3	49
365	Can we predict the formability of perovskite oxynitrides from tolerance and octahedral factors?. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12239	13	49
364	High-Temperature Raman Spectroscopy of Nano-Crystalline Carbon in Silicon Oxycarbide. <i>Materials</i> , 2018 , 11,	3.5	48
363	Enthalpy of Formation of Carbon-Rich Polymer-Derived Amorphous SiCN Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 3349-3354	3.8	48
362	Impact of the electrical conductivity on the lithium capacity of polymer-derived silicon oxycarbide (SiOC) ceramics. <i>Electrochimica Acta</i> , 2016 , 216, 196-202	6.7	48
361	Polymer-Derived Ultra-High Temperature Ceramics (UHTCs) and Related Materials. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900269	3.5	47
360	Phase separation of a hafnium alkoxide-modified polysilazane upon polymer-to-ceramic transformation: a case study. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 1873-1881	6	47
359	Crystallization behavior and controlling mechanism of iron-containing Si-C-N ceramics. <i>Inorganic Chemistry</i> , 2009 , 48, 10078-83	5.1	47
358	Al ₂ O ₃ /SiC composites prepared by warm pressing and sintering of an organosilicon polymer-coated alumina powder. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 2385-2392	6	47
357	Processing and magnetic properties of metal-containing SiCN ceramic micro- and nano-composites. <i>Journal of Materials Science</i> , 2008 , 43, 4042-4049	4.3	47
356	High-Temperature Creep Behavior of Dense SiOC-Based Ceramic Nanocomposites: Microstructural and Phase Composition Effects. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 272-280	3.8	46
355	Silicon oxycarbide/nano-silicon composite anodes for Li-ion batteries: Considerable influence of nano-crystalline vs. nano-amorphous silicon embedment on the electrochemical properties. <i>Journal of Power Sources</i> , 2014 , 269, 164-172	8.9	45
354	Composite materials based on polymer-derived SiCN ceramic and disordered hard carbons as anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 244, 80-86	8.9	45
353	Carbon-rich SiCN ceramics as high capacity/high stability anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 236, 224-229	8.9	45
352	Luminescence of heat-treated silicon-based polymers: promising materials for LED applications. <i>Journal of Materials Science</i> , 2008 , 43, 5790-5796	4.3	45
351	Polymer-Derived SiBCN Ceramic and their Potential Application for High Temperature Membranes Dedicated to Prof. Dr.-Ing. Dr.h.c. Hartmut Fuess on the occasion of his 65th birthday. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 524-528		45

350	Microwave Absorption of SiC/HfCxN1 ₄ /C Ceramic Nanocomposites with HfCxN1 ₄ -Carbon Core-shell Particles. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2655-2663	3.8	44
349	Single-source-precursor synthesis of high temperature stable SiC/C/Fe nanocomposites from a processable hyperbranched polyferrocenylcarbosilane with high ceramic yield. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1057-1067	7.1	43
348	Single-source-precursor synthesis of soft magnetic Fe ₃ Si- and Fe ₅ Si ₃ -containing SiOC ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2465-2472	6	43
347	Hard silicon carbonitride films obtained by RF-plasma-enhanced chemical vapour deposition using the single-source precursor bis(trimethylsilyl)carbodiimide. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 1325-1335	6	43
346	Formation and Characterization of Amorphous Aluminum Nitride Powder and Transparent Aluminum Nitride Film by Chemical Vapor Deposition. <i>Journal of the American Ceramic Society</i> , 1991 , 74, 1331-1334	3.8	43
345	Effect of Precursor on Speciation and Nanostructure of SiBCN Polymer-Derived Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1651-1659	3.8	42
344	Nanocubes or Nanorhomboheda? Unusual Crystal Shapes of Corundum-Type Indium Oxide. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9209-9213	3.8	42
343	Synthese und Struktur des ersten oligomeren cyclischen Dimethylsilyl-substituierten Carbodiimids. <i>Chemische Berichte</i> , 1993 , 126, 2569-2571		42
342	Fabrication of lanthanum and nitrogen co-doped SrTiO ₃ /TiO ₂ heterostructured macroporous monolithic materials for photocatalytic degradation of organic dyes under visible light. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 144-150	5.7	41
341	Nanoindentation of a Polymer-Derived Amorphous Silicon Carbonitride Ceramic. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 1164-1166	3.8	41
340	Synthesis of silyl substituted organoboranes by hydroboration of vinylsilanes. <i>Polyhedron</i> , 2000 , 19, 323-330	3.7	41
339	High pressure synthesis of marcasite-type rhodium pernitride. <i>Inorganic Chemistry</i> , 2014 , 53, 697-9	5.1	40
338	Orthorhombic In ₂ O ₃ : a metastable polymorph of indium sesquioxide. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6531-5	16.4	40
337	Polymer-derived mullite/SiC-based nanocomposites. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 3079-3090	6	40
336	Thermodynamic Control of Phase Composition and Crystallization of Metal-Modified Silicon Oxycarbides. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1899-1903	3.8	39
335	Dense silicon carbonitride ceramics by pyrolysis of cross-linked and warm pressed polysilazane powders. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 2789-2796	6	39
334	New Insights into Understanding Irreversible and Reversible Lithium Storage within SiOC and SiCN Ceramics. <i>Nanomaterials</i> , 2015 , 5, 233-245	5.4	38
333	Influence of the PVD sputtering method on structural characteristics of SiCN-coatings □ Comparison of RF, DC and HiPIMS sputtering and target configurations. <i>Surface and Coatings Technology</i> , 2011 , 205, S119-S123	4.4	38

332	Polymer-Derived Silicon Oxycarbide/Hafnia Ceramic Nanocomposites. Part II: Stability Toward Decomposition and Microstructure Evolution at $T > 1000^{\circ}\text{C}$. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1783	3.8	38
331	Finely Tuned SnO Nanoparticles for Efficient Detection of Reducing and Oxidizing Gases: The Influence of Alkali Metal Cation on Gas-Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10173-10184	9.5	36
330	High-Pressure Synthesis, Electron Energy-Loss Spectroscopy Investigations, and Single Crystal Structure Determination of a Spinel-Type Gallium Oxonitride $\text{Ga}_{2.79}\text{O}_{2.21}(\text{O}_{3.05}\text{N}_{0.76}\text{O}_{1.19})$. <i>Chemistry of Materials</i> , 2009 , 21, 2101-2107	9.6	36
329	The Thermal Conductivity of Polymer-Derived Amorphous SiO_x Compounds and Nano-Composites. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 281-285	3.8	36
328	Thermal Properties of SiOC Glasses and Glass Ceramics at Elevated Temperatures. <i>Materials</i> , 2018 , 11,	3.5	35
327	Single-source-precursor synthesis and electromagnetic properties of novel RGO/BiCN ceramic nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7950-7960	7.1	35
326	Solid-state NMR investigations of the polymer route to SiBCN ceramics. <i>Canadian Journal of Chemistry</i> , 2003 , 81, 1359-1369	0.9	35
325	Carbon substitution for oxygen in silicates in planetary interiors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15904-7	11.5	34
324	Fabrication of silicon oxycarbide-based microcomponents via photolithographic and soft lithography approaches. <i>Sensors and Actuators A: Physical</i> , 2011 , 169, 242-249	3.9	34
323	Structural Design of Polymer-Derived SiOC Ceramic Aerogels for High-Rate Li Ion Storage Applications. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2977-2983	3.8	34
322	NH ₃ -assisted synthesis of microporous silicon oxycarbonitride ceramics from preceramic polymers: a combined N ₂ and CO ₂ adsorption and small angle X-ray scattering study. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 805-818	13	33
321	In-Situ Carbon Content Adjustment in Polysilazane Derived Amorphous SiCN Bulk Ceramics. <i>Journal of the European Ceramic Society</i> , 1999 , 19, 1911-1921	6	33
320	Silicon oxycarbide ceramics as anodes for lithium ion batteries: influence of carbon content on lithium storage capacity. <i>RSC Advances</i> , 2016 , 6, 104597-104607	3.7	32
319	Corrosion behavior of silicon oxycarbide-based ceramic nanocomposites under hydrothermal conditions. <i>International Journal of Materials Research</i> , 2012 , 103, 31-39	0.5	32
318	High-pressure high-temperature synthesis of Rh ₂ O ₃ -II-type In ₂ O ₃ polymorph. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 269-271	2.5	32
317	Synthesis and Characterization of Novel Non-Oxide Sol-Gel Derived Mesoporous Amorphous Si-C-N Membranes. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 567-570		32
316	B/C/N Materials and B ₄ C Synthesized by a Non-Oxide Sol-Gel Process. <i>Chemistry of Materials</i> , 2003 , 15, 755-764	9.6	32
315	High-temperature oxidation behavior of polymer-derived SiHfBCN ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3021-3028	6	31

314	Synthesis, Structures, and Properties of Bulk Si(O)C Ceramics from Polycarbosilane. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2175-2181	3.8	31
313	In-situ- und Operando-Spektroskopie zur Untersuchung von Mechanismen der Gaserkennung. <i>Angewandte Chemie</i> , 2007 , 119, 3900-3923	3.6	31
312	Thermal Decomposition of Poly(methylsilsesquicarbodiimide) to Amorphous SiCN Ceramics. <i>Chemistry of Materials</i> , 1999 , 11, 412-420	9.6	31
311	Ultra-light, high flexible and efficient CNTs/Ti3C2-sodium alginate foam for electromagnetic absorption application. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2859-2867	9.1	30
310	Spinel sialons. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 789-93	16.4	30
309	Synthesis of Nanocrystalline Zr3N4 and Hf3N4 Powders from Metal Dialkylamides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005 , 631, 1449-1455	1.3	30
308	Silylated carbodiimides in molecular and extended structures. <i>Physical Review B</i> , 1999 , 60, 3126-3139	3.3	30
307	Fabrication of nitrogen-doped TiO2 monolith with well-defined macroporous and bicrystalline framework and its photocatalytic performance under visible light. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 809-816	6	29
306	Multilayer Amorphous-Si-B-C-N/Al2O3/Al2O3 Membranes for Hydrogen Purification. <i>Advanced Engineering Materials</i> , 2010 , 12, 522-528	3.5	29
305	Tuning of the Rheological Properties and Thermal Behavior of Boron-Containing Polysiloxanes. <i>Chemistry of Materials</i> , 2008 , 20, 3601-3608	9.6	29
304	Equation of state of cubic hafnium(IV) nitride having Th3P4 -type structure. <i>Solid State Communications</i> , 2006 , 139, 255-258	1.6	29
303	Facile sol-gel synthesis of reduced graphene oxide/silica nanocomposites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2923-2930	6	28
302	Preparation and hydrothermal corrosion behavior of Cf/SiCN and Cf/SiHfBCN ceramic matrix composites. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3329-3337	6	28
301	Lithium containing silazanes as precursors for SiCN:Li ceramics: A potential material for electrochemical applications. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 3897-3901	6	28
300	A Sol-Gel Route to B4C. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1698-1700	16.4	27
299	An anhydrous sol-gel system derived from methyldichlorosilane. <i>Applied Organometallic Chemistry</i> , 1999 , 13, 495-499	3.1	27
298	Influence of pyrolysis atmosphere on the lithium storage properties of carbon-rich polymer derived SiOC ceramic anodes. <i>Solid State Ionics</i> , 2014 , 262, 22-24	3.3	26
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