

Ralf Riedel

List of Publications by Year in Descending Order

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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	Si-based polymer-derived ceramics for energy conversion and storage. <i>Journal of Advanced Ceramics</i> , 2022 , 11, 197-246	10.7	2
438	Phase composition, microstructure, and mechanical properties of polymer-derived SiOC glass-ceramics reinforced by WC particles. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 1955-1962	6	0
437	Microstrain-range giant piezoresistivity of silicon oxycarbide thin films under mechanical cyclic loads. <i>Materials and Design</i> , 2022 , 213, 110323	8.1	0
436	Micro/nano multiscale reinforcing strategies toward extreme high-temperature applications: Take carbon/carbon composites and their coatings as the examples. <i>Journal of Materials Science and Technology</i> , 2022 , 96, 31-68	9.1	22
435	Natural wood templated hierarchically cellular NbC/Pyrolytic carbon foams as Stiff, lightweight and High-Performance electromagnetic shielding materials. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 1543-1553	9.3	2
434	Rapid curing of polysilazane coatings at room temperature via chloride-catalyzed hydrolysis/condensation reactions. <i>Progress in Organic Coatings</i> , 2022 , 167, 106872	4.8	0
433	Two birds with one stone: Simultaneous fabrication of HfC nanowires and CNTs through efficient utilization of polymer-derived ceramics. <i>Journal of Materials Science and Technology</i> , 2022 , 129, 163-172	9.1	0
432	Upcycling Waste Plastics into Multi-Walled Carbon Nanotube Composites via NiCo ₂ O ₄ Catalytic Pyrolysis. <i>Catalysts</i> , 2021 , 11, 1353	4	0
431	Polymer-Derived Ultra-High Temperature Ceramics (UHTCs) and Related Materials. <i>Polito Springer Series</i> , 2021 , 281-323	0.4	0
430	Piezoresistive carbon-containing ceramic nanocomposites A review. <i>Open Ceramics</i> , 2021 , 5, 100057	3.3	8
429	Single-source-precursor synthesis and high-temperature evolution of a boron-containing SiC/HfC ceramic nano/micro composite. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3002-3012	6	9
428	SiBCN-reduced graphene oxide (rGO) ceramic composites derived from single-source-precursor with enhanced and tunable microwave absorption performance. <i>Carbon</i> , 2021 , 179, 180-189	10.4	8
427	Towards a Greener and Scalable Synthesis of NaTiO Nanorods and Their Application as Anodes in Batteries for Grid-Level Energy Storage. <i>Energy Technology</i> , 2021 , 9, 2000856	3.5	
426	Electromagnetic wave absorbing performance of multiphase (SiC/HfC/C)/SiO ₂ nanocomposites with an unique microstructure. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2425-2434	6	3
425	Long-term oxidation behavior of C/SiC-SiBCN composites in wet oxygen environment. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1132-1141	6	4
424	Novel ceramic matrix composites with tungsten and molybdenum fiber reinforcement. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3030-3036	6	4
423	Evaluation of mechanical properties and hydrophobicity of room-temperature, moisture-curable polysilazane coatings. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50469	2.9	9

4 ²²	Polymer-Derived Lightweight SiBCN Ceramic Nanofibers with High Microwave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34889-34898	9.5	12
4 ²¹	Effect of morphology of C-rich silicon carbonitride ceramic on electrochemical properties of sulfur cathode for Li-S battery. <i>Electrochimica Acta</i> , 2021 , 384, 138265	6.7	3
4 ²⁰	Electromagnetic shielding performance of SiC/graphitic carbon-SiCN porous ceramic nanocomposites derived from catalyst assisted single-source-precursors. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 4806-4814	6	4
4 ¹⁹	Cycle parameter dependent degradation analysis in automotive lithium-ion cells. <i>Journal of Power Sources</i> , 2021 , 506, 230227	8.9	2
4 ¹⁸	Compressive thermal stress and microstructure-driven charge carrier transport in silicon oxycarbide thin films. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 6377-6384	6	2
4 ¹⁷	An electrically conductive SiBCN film prepared via polymer-derived ceramic and chemical vapor deposition methods. <i>Sensors and Actuators A: Physical</i> , 2021 , 330, 112824	3.9	4
4 ¹⁶	Sustainable paper templated ultrathin, light-weight and flexible niobium carbide based films against electromagnetic interference. <i>Carbon</i> , 2021 , 183, 929-939	10.4	3
4 ¹⁵	Ablation resistant ZrC coating modified by polymer-derived SiC/TiC nanocomposites for ultra-high temperature application. <i>Journal of the European Ceramic Society</i> , 2021 ,	6	2
4 ¹⁴	Novel hydrogen chemisorption properties of amorphous ceramic compounds consisting of p-block elements: exploring Lewis acidBase AlN pair sites formed in situ within polymer-derived siliconaluminumnitrogen-based systems. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2959-2969	13	2
4 ¹³	Single-source-precursor synthesis and phase evolution of SiC-TaC-C ceramic nanocomposites containing core-shell structured TaC@C nanoparticles. <i>Journal of Advanced Ceramics</i> , 2020 , 9, 320-328	10.7	16
4 ¹²	Dielectric Properties and Electromagnetic Wave Absorbing Performance of Single-Source-Precursor Synthesized MoSiC/SiC/C Nanocomposites with an In Situ Formed Nowotny Phase. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16912-16921	9.5	6
4 ¹¹	Highly flexible and ultrathin Mo ₂ C film via in-situ growth on graphene oxide for electromagnetic shielding application. <i>Carbon</i> , 2020 , 163, 254-264	10.4	16
4 ¹⁰	Effect of hot isostatic pressing on densification, microstructure and nanoindentation behaviour of MgSiC nanocomposites. <i>Journal of Materials Science</i> , 2020 , 55, 10582-10592	4.3	6
4 ⁰⁹	High-temperature stability and oxidation behavior of SiOC/HfO ₂ ceramic nanocomposite in air. <i>Corrosion Science</i> , 2020 , 175, 108866	6.8	7
4 ⁰⁸	Light-weight and highly flexible TaC modified PyC fiber fabrics derived from cotton fiber textile with excellent electromagnetic shielding effectiveness. <i>Chemical Engineering Journal</i> , 2020 , 387, 124085	14.7	17
4 ⁰⁷	Discovery of Ternary Silicon Titanium Nitride with Spinel-Type Structure. <i>Scientific Reports</i> , 2020 , 10, 7372	4.9	5
4 ⁰⁶	Significant improvement of high-temperature oxidation resistance of HfC/SiC ceramic nanocomposites with the incorporation of a small amount of boron. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3499-3508	6	6
4 ⁰⁵	In situ growth of B ₄ C nanowires on activated carbon felt to improve microwave absorption performance. <i>Applied Physics Letters</i> , 2020 , 116, 203101	3.4	5

404	A Novel High-Pressure Tin Oxynitride Sn N O. <i>Chemistry - A European Journal</i> , 2020 , 26, 2187-2194	4.8	8
403	Phase evolution of SiOC-based ceramic nanocomposites derived from a polymethylsiloxane modified by HF- and Ti-alkoxides. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1436-1445	3.8	7
402	Enhanced hydrogen evolution reaction catalyzed by carbon-rich Mo _{4.8} Si ₃ C _{0.6} /C/SiC nanocomposites via a PDC approach. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 1385-1395	3.8	3
401	Single-source-precursor synthesis and high-temperature evolution of novel mesoporous SiVN(O)-based ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6280-6287	6	5
400	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
399	Hydrogen Selective SiCH Inorganic-Organic Hybrid/EALO Composite Membranes. <i>Membranes</i> , 2020 , 10,	3.8	1
398	Effect factors on thermal and mechanical properties of SiO ₂ and TiB ₂ modified SiBCN-based adhesives. <i>Ceramics International</i> , 2020 , 46, 19416-19424	5.1	3
397	Wet oxidation behavior of C/SiC _B SiHf(B)CN composites at high temperature. <i>Advanced Composites and Hybrid Materials</i> , 2020 , 3, 415-429	8.7	2
396	Effect of the Content and Ordering of the sp Free Carbon Phase on the Charge Carrier Transport in Polymer-Derived Silicon Oxycarbides. <i>Molecules</i> , 2020 , 25,	4.8	8
395	Review: Silicon oxycarbide based materials for biomedical applications. <i>Applied Materials Today</i> , 2020 , 18, 100482	6.6	11
394	Nowotny phase Mo ₃ +2xSi ₃ C _{0.6} dispersed in a porous SiC/C matrix: A novel catalyst for hydrogen evolution reaction. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 508-519	3.8	7
393	Elastic properties and fracture toughness of SiOC-based glass-ceramic nanocomposites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 491-499	3.8	13
392	Self-healing enhancing tensile creep of 2D-satin weave SiC/(SiC-SiBCN) _x composites in wet oxygen environment. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 3509-3519	6	11
391	The influence of the anode overhang effect on the capacity of lithium-ion cells by 0D-modeling approach. <i>Journal of Energy Storage</i> , 2020 , 29, 101344	7.8	11
390	Apatite Forming Ability and Dissolution Behavior of Boron- and Calcium-Modified Silicon Oxycarbides in Comparison to Silicate Bioactive Glass. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5337-5347	5.5	6
389	Synergistic effect of g-C ₃ N ₄ , Ni(OH) ₂ and halloysite in nanocomposite photocatalyst on efficient photocatalytic hydrogen generation. <i>Renewable Energy</i> , 2019 , 138, 434-444	8.1	22
388	Laser ablation behavior of SiHfC-based ceramics prepared from a single-source precursor: Effects of HF-incorporation into SiC. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2018-2027	6	18
387	Charting stability space. <i>Nature Materials</i> , 2019 , 18, 664-665	27	3

386	Effect of Ca and B incorporation into silicon oxycarbide on its microstructure and phase composition. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 7645-7655	3.8	5
385	Polymer-Derived Ultra-High Temperature Ceramics (UHTCs) and Related Materials. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900269	3.5	47
384	Wet oxidation behavior of SiC/(SiC- SiBCN)x composites prepared by CVI combined with PIOP process. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6239-6255	3.8	12
383	ZrC/B ₂ SiC ceramic nanocomposites derived from a novel single-source precursor with high ceramic yield. <i>Journal of Advanced Ceramics</i> , 2019 , 8, 112-120	10.7	22
382	Polyborosilazane-Derived High Temperature Resistant SiBCNO. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801295	3.5	2
381	Effect of composition and high-temperature annealing on the local deformation behavior of silicon oxycarbides. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2287-2296	6	7
380	Influence of SiC/Silica and Carbon/Silica Interfaces on the High-Temperature Creep of Silicon Oxycarbide-Based Glass Ceramics: A Case Study. <i>Advanced Engineering Materials</i> , 2019 , 21, 1800596	3.5	4
379	Mechanical properties and electromagnetic shielding performance of single-source-precursor synthesized dense monolithic SiC/HfC _x N _{1-x} /C ceramic nanocomposites. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10683-10693	7.1	15
378	Ultra-light, high flexible and efficient CNTs/Ti ₃ C ₂ -sodium alginate foam for electromagnetic absorption application. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2859-2867	9.1	30
377	Reactive Element Effect Applied by Alloying and SiHfBCN Coating on the Oxidation of Pure Chromium. <i>Oxidation of Metals</i> , 2019 , 92, 281-302	1.6	6
376	Post-mortem analysis of calendar aged large-format lithium-ion cells: Investigation of the solid electrolyte interphase. <i>Journal of Power Sources</i> , 2019 , 443, 227243	8.9	12
375	Facile Preparative Access to Bioactive Silicon Oxycarbides with Tunable Porosity. <i>Materials</i> , 2019 , 12,	3.5	5
374	Solid-Solution Effects on the High-Temperature Oxidation Behavior of Polymer-Derived (Hf,Ta)C/SiC and (Hf,Ti)C/SiC Ceramic Nanocomposites. <i>Advanced Engineering Materials</i> , 2019 , 21, 1800879	3.5	16
373	Effect of PSO and TiB ₂ content on the high temperature adhesion strength of SiBCNO ceramic. <i>Ceramics International</i> , 2019 , 45, 9515-9521	5.1	9
372	Characterization and application of a novel low viscosity polysilazane for the manufacture of C- and SiC-fiber reinforced SiCN ceramic matrix composites by PIP process. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 212-221	6	22
371	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
370	An air stable high temperature adhesive from modified SiBCN precursor synthesized via polymer-derived-ceramic route. <i>Ceramics International</i> , 2018 , 44, 8476-8483	5.1	13
369	Polymer-derived porous Bi ₂ WO ₆ /SiC(O) ceramic nanocomposites with high photodegradation efficiency towards Rhodamine B. <i>Ceramics International</i> , 2018 , 44, 8562-8569	5.1	7

368	The influence of pyrolysis temperature on the electrochemical behavior of porous carbon-rich SiCN polymer-derived ceramics. <i>Solid State Ionics</i> , 2018 , 315, 59-64	3.3	14
367	SiC/Hf _y Ta _{1-y} C _x N _{1-x} /C ceramic nanocomposites with Hf _y Ta _{1-y} C _x N _{1-x} -carbon core-shell nanostructure and the influence of the carbon-shell thickness on electrical properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 855-864	7.1	25
366	Microstructural characterization of Mg-SiC nanocomposite synthesized by high energy ball milling. <i>Advanced Powder Technology</i> , 2018 , 29, 1742-1748	4.6	20
365	The improvement in thermal and mechanical properties of TiB ₂ modified adhesive through the polymer-derived-ceramic route. <i>Ceramics International</i> , 2018 , 44, 19505-19511	5.1	5
364	High-Temperature Raman Spectroscopy of Nano-Crystalline Carbon in Silicon Oxycarbide. <i>Materials</i> , 2018 , 11,	3.5	48
363	Thermal Properties of SiOC Glasses and Glass Ceramics at Elevated Temperatures. <i>Materials</i> , 2018 , 11,	3.5	35
362	Polymer Derived SiBCN Ceramics: 30 Years of Research. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800360	3.5	55
361	Degradation mechanisms of a self-healing SiC(F)/BN(i)/[SiC-B ₄ C](m) composite at high temperature under different oxidizing atmospheres. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 3804-3813	6	12
360	Feeding Patterns of Two Commercially Important Fish Species <i>Scomberoides commersonnianus</i> and <i>S. tol</i> in the Northern Arabian Sea Coast of Pakistan. <i>Pakistan Journal of Zoology</i> , 2018 , 50,	1.7	2
359	Effect of SiC nanoparticles on manufacturing process, microstructure and hardness of Mg-SiC nanocomposites produced by mechanical milling and hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 738, 264-272	5.3	18
358	Significant improvement of the short-term high-temperature oxidation resistance of dense monolithic HfC/SiC ceramic nanocomposites upon incorporation of Ta. <i>Corrosion Science</i> , 2018 , 145, 191-198	6.8	20
357	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
356	Preparation of dense SiHf(B)CN-based ceramic nanocomposites via rapid spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 5157-5165	6	20
355	Perovskite Sr _{1-x} Ba _x W _{1-y} Ta _y (O,N) ₃ : synthesis by thermal ammonolysis and photocatalytic oxygen evolution under visible light. <i>Materials for Renewable and Sustainable Energy</i> , 2017 , 6, 1	4.7	8
354	Novel 3D Si/C/SiOC nanocomposites: Toward electrochemically stable lithium storage in silicon. <i>Solid State Ionics</i> , 2017 , 302, 66-71	3.3	6
353	Role of single-source-precursor structure on microstructure and electromagnetic properties of CNTs-SiCN nanocomposites. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4649-4660	3.8	17
352	One-pot synthesis of a C/SiFeN(O)-based ceramic paper with in-situ generated hierarchical micro/nano-morphology. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 5193-5203	6	7
351	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

350	Electrochemical study of NiO nanosheets: toward the understanding of capacity fading. <i>Journal of Materials Science</i> , 2017 , 52, 6498-6505	4.3	4
349	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
348	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
347	Effect of Alumina Incorporation on the Surface Mineralization and Degradation of a Bioactive Glass (CaO-MgO-SiO ₂ -Na ₂ O-P ₂ O ₅ -CaF ₂) Glycerol Paste. <i>Materials</i> , 2017 , 10,	3.5	9
346	A Model for Diffusion and Immobilization of Lithium in SiOC Nanocomposite Anodes. <i>Jom</i> , 2017 , 69, 1524-1531	2.1	3
345	Synthesis of Nanocrystalline Gd ₂ O ₂ NCN from a Versatile Single-source Precursor. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1681-1691	1.3	2
344	Single-source-precursor synthesis and electromagnetic properties of novel RGO/SiCN ceramic nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7950-7960	7.1	35
343	Development and Characterization of Mg-SiC Nanocomposite Powders Synthesized by Mechanical Milling. <i>Key Engineering Materials</i> , 2017 , 742, 165-172	0.4	5
342	Lithium intercalation into disordered carbon/SiCN composite. Part 2: Raman spectroscopy and ⁷ Li MAS NMR investigation of lithium storage sites. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 47-55	2.6	8
341	Si- and Sn-containing SiOCN-based nanocomposites as anode materials for lithium ion batteries: synthesis, thermodynamic characterization and modeling. <i>International Journal of Materials Research</i> , 2017 , 108, 920-932	0.5	6
340	Editorial of the special issue on ultra-high temperature ceramic matrix composites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3551-3552	6	2
339	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
338	Ferroelectric InMnO ₃ : Growth of single crystals, structure and high-temperature phase transitions. <i>Journal of Solid State Chemistry</i> , 2016 , 241, 54-63	3.3	8
337	High-temperature creep behavior of a SiOC glass ceramic free of segregated carbon. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3747-3753	6	22
336	Single-source-precursor synthesis of novel V ₈ C ₇ /SiC(O)-based ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3553-3563	6	22
335	Photoluminescence of urea- and urea/rhodamine B-capped TiO ₂ nanoparticles. <i>Materials Chemistry and Physics</i> , 2016 , 177, 472-478	4.4	2
334	⁷ Li NMR studies of lithium ion dynamics in polymer-derived silicon oxycarbide ceramics. <i>Solid State Ionics</i> , 2016 , 287, 28-35	3.3	11
333	High-temperature oxidation behavior of polymer-derived SiHfBCN ceramic nanocomposites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3021-3028	6	31

332	Facile sol-gel synthesis of reduced graphene oxide/silica nanocomposites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2923-2930	6	28
331	Effect of boron incorporation on the phase composition and high-temperature behavior of polymer-derived silicon carbide. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 967-977	6	22
330	Silicon oxycarbonitrides synthesized by ammonia-assisted thermolysis route from polymers: A total X-ray scattering, solid-state NMR, and TEM structural study. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 979-989	6	8
329	SiOC(N)/Hard Carbon Composite Anodes for Na-Ion Batteries: Influence of Morphology on the Electrochemical Properties. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A156-A162	3.9	19
328	Electrochemical Li Storage Properties of Carbon-Rich B ₁₀ C ₂ N ₂ Ceramics. <i>Journal of Carbon Research</i> , 2016 , 2, 9	3.3	4
327	Synthesis and In Vitro Activity Assessment of Novel Silicon Oxycarbide-Based Bioactive Glasses. <i>Materials</i> , 2016 , 9,	3.5	25
326	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
325	Microwave Absorption of SiC/HfC _x N _{1-x} /C Ceramic Nanocomposites with HfC _x N _{1-x} -Carbon Core-Shell Particles. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2655-2663	3.8	44
324	Mechanism of Gas Separation through Amorphous Silicon Oxycarbide Membranes. <i>Advanced Engineering Materials</i> , 2016 , 18, 721-727	3.5	11
323	Void-shell silicon/carbon/SiCN nanostructures: toward stable silicon-based electrodes. <i>Journal of Materials Science</i> , 2016 , 51, 6051-6061	4.3	7
322	Laser ablation behavior of Cf/SiHfBCN ceramic matrix composites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 3761-3768	6	26
321	The Thermal Conductivity of Polymer-Derived Amorphous SiOC Compounds and Nano-Composites. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 281-285	3.8	36
320	Ceramic synthesis from condensed phases. <i>ChemTexts</i> , 2016 , 2, 1	2.2	9
319	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
318	Synthesis and rapid sintering of dense SrA(O,N) ₃ (A = Mo, W) oxynitride ceramics. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3273-3281	6	3
317	Atomic-scale assessment of the crystallization onset in silicon carbonitride. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3355-3362	6	14
316	A study on the thermal conversion of scheelite-type ABO ₄ into perovskite-type AB(O,N) ₃ . <i>Dalton Transactions</i> , 2015 , 44, 8238-46	4.3	16
315	Lithium intercalation into SiCN/disordered carbon composite. Part 1: influence of initial carbon porosity on cycling performance/capacity. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2763-2769	2.6	16

314	Synthesis and in vitro bioactivity assessment of injectable bioglass/organic pastes for bone tissue repair. <i>Ceramics International</i> , 2015 , 41, 9373-9382	5.1	12
313	High-Pressure Synthesis of Novel Boron Oxynitride B ₆ N ₄ O ₃ with Sphalerite Type Structure. <i>Chemistry of Materials</i> , 2015 , 27, 5907-5914	9.6	15
312	Synthesis and high-temperature evolution of polysilylcarbodiimide-derived SiCN ceramic coatings. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3771-3780	6	22
311	Influence of the architecture of dendritic-like polycarbosilanes on the ceramic yield. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1161-1171	6	12
310	High-ceramic-yield precursor to SiC-based ceramic: A hyperbranched polytitaniumcarbosilane bearing self-catalyzing units. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 851-858	6	25
309	Evolution of the local structure at Hf sites in SiHfOC upon ceramization of a hafnium-alkoxide-modified polysilsesquioxane: A perturbed angular correlation study. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 29-35	6	12
308	Ultramicroporous silicon nitride ceramics for CO ₂ capture. <i>Journal of Materials Research</i> , 2015 , 30, 2958-2966	9	
307	Formation of aluminum nitride from metal-organic precursors synthesized by reacting aluminum tri-chloride with bis(trimethylsilyl)carbodiimide. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 106-113	1	2
306	Perovskite-type Solid Solution SrMo _{1-x} W _x (O, N) ₃ Oxynitrides: Synthesis, Structure, and Magnetic Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015 , 641, 1533-1539	1.3	2
305	New Insights into Understanding Irreversible and Reversible Lithium Storage within SiOC and SiCN Ceramics. <i>Nanomaterials</i> , 2015 , 5, 233-245	5.4	38
304	Synthesis and high-temperature evolution of single-phase amorphous SiHfN ceramics. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 2007-2015	6	20
303	Heavy metals in red crabs, <i>Chaceon quinquedens</i> , from the Gulf of Mexico. <i>Marine Pollution Bulletin</i> , 2015 , 101, 845-51	6.7	12
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	The influence of the pyrolysis temperature on the electrochemical behavior of carbon-rich SiCN polymer-derived ceramics as anode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 282, 409-415	8.9	23
300	A facile preparation of dual-phase nitrogen-doped TiO ₂ /TiO ₃ macroporous monolithic photocatalyst for organic dye photodegradation under visible light. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 1815-1821	6	26
299	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
298	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
297	Surface-initiated anionic polymerization of [1]silaferrocenophanes for the preparation of colloidal preceramic materials. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 597-603	4.8	15

296	High-temperature piezoresistive C / SiOC sensors. <i>Journal of Sensors and Sensor Systems</i> , 2015 , 4, 133-136	17
295	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
294	Preparation and characterization of macroporous TiO ₂ /TiO ₃ heterostructured monolithic photocatalyst. <i>Materials Letters</i> , 2014 , 116, 353-355	3.3 14
293	Imide-containing ladder polyphenylsilsesquioxanes with high thermal stability and thermoplastic properties. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9 2
292	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
291	High pressure synthesis of marcasite-type rhodium pernitride. <i>Inorganic Chemistry</i> , 2014 , 53, 697-9	5.1 40
290	In situ formation of tungsten oxycarbide, tungsten carbide and tungsten nitride nanoparticles in micro- and mesoporous polymer-derived ceramics. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10454	13 24
289	Hybrid organotin and tin oxide-based thin films processed from alkynylorganotinols: synthesis, characterization, and gas sensing properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17093-101	9.5 24
288	High-temperature stability and saturation magnetization of superparamagnetic nickel nanoparticles in microporous polysilazane-derived ceramics and their gas permeation properties. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12270-8	9.5 24
287	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
286	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
285	Vapor-Phase Deposition of Oxides 2014 , 267-290	
284	Single-source-precursor synthesis of hafnium-containing ultrahigh-temperature ceramic nanocomposites (UHTC-NCs). <i>Inorganic Chemistry</i> , 2014 , 53, 10443-55	5.1 64
283	High-pressure high-temperature behavior of polymer derived amorphous B-C-N. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 182004	0.3 4
282	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
281	Sinterability of the oxynitride LaTiO ₂ N with perovskite-type structure. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 567-573	5.7 14
280	Lithium dynamics in carbon-rich polymer-derived SiCN ceramics probed by nuclear magnetic resonance. <i>Journal of Power Sources</i> , 2014 , 253, 342-348	8.9 21
279	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

278 Perovskites **2014**, 257-297

277 Pressureless fabrication of dense monolithic SiC ceramics from a polycarbosilane. *Journal of the European Ceramic Society*, **2014**, 34, 3571-3578 6 71

276 Fabrication of nitrogen-doped TiO₂ monolith with well-defined macroporous and bicrystalline framework and its photocatalytic performance under visible light. *Journal of the European Ceramic Society*, **2014**, 34, 809-816 6 29

275 Synthesis and characterization of luminescent properties of ceramics derived from polysilylcarbodiimides. *Journal of the Ceramic Society of Japan*, **2014**, 122, 895-901 1 5

274 Polymer-Derived Ceramics **2014**, 457-500 1

273 Structural Chemistry of Ceramics **2014**, 71-103

272 Diffusion in Ceramics **2014**, 105-182 0

271 Structures of Ceramic Materials: Thermodynamics and Constitution **2014**, 183-229

270 Modeling Amorphous Ceramic Structures **2014**, 39-69

269 Mesoscopic Ceramic Structures in One, Two, and Three Dimensions **2014**, 297-346

268 Bulk Ceramic Nanostructures **2014**, 347-373

267 Glass Ceramics: Silica- and Alumina-Based **2014**, 375-406

266 Microstructural Design of Ceramics: Theory and Experiment **2014**, 231-295

265 Cellular Structures **2014**, 407-441 1

264 Ceramic Thin Films **2014**, 443-509

263 Multiphase Fiber Composites **2014**, 511-582

262 Ceramic Oxides **2014**, 1-58

261 Structure-Property Relations **2014**, 349-378

260 Gallium Nitride and Oxonitrides **2014**, 91-130

259 Silicon Carbide- and Boron Carbide-Based Hard Materials **2014**, 131-227

258 Fracture Resistance of Ceramics **2014**, 601-631

257 Creep Mechanisms in Commercial Grades of Silicon Nitride **2014**, 577-599

256 Machining and Finishing of Ceramics **2014**, 247-266

255 Oxidation and Corrosion of Ceramics **2014**, 1-93

254 Ceramic Filters and Membranes **2014**, 117-167

253 Thermal Barrier Coatings **2014**, 95-115

1

252 High-Temperature Engineering Ceramics **2014**, 169-190

251 Advanced Ceramic Glow Plugs **2014**, 191-206

250 Oxides for Li Intercalation, Li-ion Batteries **2014**, 471-494

249 Fundamentals and Methods of Ceramic Joining **2014**, 215-246

248 Sintering of Nanograin Ceramics **2014**, 439-455

1

247 Hot Pressing and Spark Plasma Sintering **2014**, 189-214

246 Sol-Gel Processing of Ceramics **2014**, 121-140

245 High-Pressure Routes to Ceramics **2014**, 501-517

244 Powder Characterization **2014**, 337-368

243 Liquid Feed-Flame Spray Pyrolysis (LF-FSP) in the Synthesis of Single- and Mixed-Metal Oxide Nanopowders **2014**, 97-120

242 Hydrothermal Routes to Advanced Ceramic Powders and Materials **2014**, 63-95

241 Sintering **2014**, 141-169

240 Hot Isostatic Pressing and Gas-Pressure Sintering **2014**, 171-187

239 Metal/Organic Chemical Vapor Deposition of Metal Oxide Films and Nanostructures **2014**, 291-336

2

238 Powder Compaction by Dry Pressing **2014**, 1-37

3

237 Nonconventional Polymers in Ceramic Processing: Thermoplastics and Monomers **2014**, 395-413

236 Process Defects **2014**, 369-394

235 Ferroelectric Properties **2014**, 729-790

234 Fracture of Ceramics **2014**, 529-575

233 Interfaces and Microstructures in Materials **2014**, 479-528

232 Electrical Conduction in Nanostructured Ceramics **2014**, 697-727

231 Complex Oxynitrides **2014**, 229-256

230 Thermal Conductivity **2014**, 665-696

229 Superplasticity in Ceramics: Accommodation-Controlling Mechanisms Revisited **2014**, 633-663

1

228 Magnetic Properties of Transition-Metal Oxides: From Bulk to Nano **2014**, 791-833

227 Defect Structure, Nonstoichiometry, and Nonstoichiometry Relaxation of Complex Oxides **2014**, 437-478

1

226 The Mn_{n+1}AX_n Phases and their Properties **2014**, 299-347

2

225 Nitrides **2014**, 59-89

224 Ceramic Fuel Cells: Principles, Materials, and Applications **2014**, 345-371

223 Ceramic Lighting **2014**, 415-445

222 Ceramic Gas Sensors **2014**, 447-470

221 Magnetic Ceramics **2014**, 495-510

220 Polymer-Derived Ceramics: 40 Years of Research and Innovation in Advanced Ceramics **2014**, 245-320

219 Nitridosilicates and Oxonitridosilicates: From Ceramic Materials to Structural and Functional Diversity **2014**, 373-413

1

218 Nanosized and Nanostructured Hard and Superhard Materials and Coatings **2014**, 207-234

217 Microwave Ceramics **2014**, 321-344

216 Manufacturing Technology: Rapid Prototyping **2014**, 415-437

215 Electronic structure and band gap of oxygen bearing c-Zr₃N₄ and of c-Hf₃N₄ by soft X-ray spectroscopy. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 835-842

1.6

4

214 Dislocations in Ceramics **2014**, 379-436

213 Modern Trends in Advanced Ceramics **2014**, 1-38

1

212 Tape Casting **2014**, 39-62

1

211 Single-source-precursor synthesis of dense SiC/HfC(x)N(1-x)-based ultrahigh-temperature ceramic nanocomposites. *Nanoscale*, **2014**, 6, 13678-89

7.7

72

210 High-Temperature Creep Behavior of SiOC Glass-Ceramics: Influence of Network Carbon Versus Segregated Carbon. *Journal of the American Ceramic Society*, **2014**, 97, 3935-3942

3.8

23

209 New Insights in to the Lithium Storage Mechanism in Polymer Derived SiOC Anode Materials. *Electrochimica Acta*, **2014**, 119, 78-85

6.7

83

208 Effect of matrix gas phase deposition cycles on the microstructure and properties of 2D C/SiC. *Composites Science and Technology*, **2014**, 90, 117-122

8.6

4

207 Oxides for Li Intercalation, Li-ion Batteries **2013**, 471-494

206	Microwave Ceramics 2013 , 321-344		1
205	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
204	Nanosized and Nanostructured Hard and Superhard Materials and Coatings 2013 , 207-234		
203	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
202	In situ high pressure high temperature experiments in multi-anvil assemblies with bixbyite-type In ₂ O ₃ and synthesis of corundum-type and orthorhombic In ₂ O ₃ polymorphs. <i>High Pressure Research</i> , 2013 , 33, 697-711	1.6	16
201	Possible superhardness of CrB ₄ . <i>Inorganic Chemistry</i> , 2013 , 52, 540-2	5.1	71
200	Effect of demixing and coarsening on the energetics of poly(boro)silazane-derived amorphous Si(B) _{1-x} CN _x ceramics. <i>Scripta Materialia</i> , 2013 , 69, 347-350	5.6	21
199	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
198	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
197	Thermal stability, morphology and electronic band gap of Zn(NCN). <i>Solid State Sciences</i> , 2013 , 23, 50-57	3.4	16
196	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
195	Polymer-derived SiCN and SiOC ceramics: Structure and energetics at the nanoscale. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3826	13	207
194	Visible light photocatalysis with c-WO _{3-x} /WO ₃ ·H ₂ O nanoheterostructures in situ formed in mesoporous polycarbosilane-siloxane polymer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4467-4475	16.4	134
193	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
192	Orthorhombic In ₂ O ₃ : a metastable polymorph of indium sesquioxide. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6531-5	16.4	40
191	Carbon Mobility in SiOC/HfO ₂ Ceramic Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2058-2060	3.8	12
190	Precursor-Derived Ceramics 2013 , 1025-1101		14
189	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

188	Orthorhombisches In ₂ O ₃ – ein metastabiles Indiums sesquioxid- Polymorph. <i>Angewandte Chemie</i> , 2013 , 125, 6659-6663	3.6	2
187	Phase segregation in Mn-doped In ₂ O ₃ : in situ high-pressure high-temperature synchrotron studies in multi-anvil assemblies. <i>RSC Advances</i> , 2013 , 3, 5357	3.7	4
186	Influence of diamond particles content on the critical load for crack initiation and fracture toughness of SiOC glass/diamond composites. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 847-858 ⁶		9
185	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
184	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
183	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
182	Photoluminescence of as-synthesized and heat-treated phenyl-containing polysilylcarbodiimides: role of crosslinking and free carbon formation in polymer-derived ceramics. <i>Applied Organometallic Chemistry</i> , 2013 , 27, 630-638	3.1	12
181	Oxidation and Corrosion of Ceramics 2013 , 1-93		0
180	Thermal Barrier Coatings 2013 , 95-115		1
179	Polymer-Derived Ceramics (PDCs) 2013 , 203-245		1
178	Decomposition-Coarsening Model of SiOC/HfO ₂ Ceramic Nanocomposites Upon Isothermal Anneal at 1300°C. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2290-2297	3.8	25
177	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
176	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
175	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
174	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
173	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
172	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
171	Tape Casting 2012 , 39-62		8

170	Powder Compaction by Dry Pressing 2012 , 1-37		4
169	Low temperature synthesis of nanocrystalline MnIn ₂ O ₄ spinel. <i>Dalton Transactions</i> , 2012 , 41, 3374-6	4.3	10
168	Manufacturing Technology: Rapid Prototyping 2012 , 415-437		1
167	Nonconventional Polymers in Ceramic Processing: Thermoplastics and Monomers 2012 , 395-413		
166	Process Defects 2012 , 369-394		
165	Powder Characterization 2012 , 337-368		
164	MetalOrganic Chemical Vapor Deposition of Metal Oxide Films and Nanostructures 2012 , 291-336		3
163	Vapor-Phase Deposition of Oxides 2012 , 267-290		3
162	Machining and Finishing of Ceramics 2012 , 247-266		
161	Fundamentals and Methods of Ceramic Joining 2012 , 215-246		
160	Hot Pressing and Spark Plasma Sintering 2012 , 189-214		1
159	Hot Isostatic Pressing and Gas-Pressure Sintering 2012 , 171-187		1
158	Sintering 2012 , 141-169		2
157	Hydrothermal Routes to Advanced Ceramic Powders and Materials 2012 , 63-95		3
156	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
155	Liquid Feed-Flame Spray Pyrolysis (LF-FSP) in the Synthesis of Single- and Mixed-Metal Oxide Nanopowders 2012 , 97-120		1
154	Sintering of Nanograin Ceramics 2012 , 439-455		1
153	Polymer-Derived Ceramics 2012 , 457-500		8

152 High-Pressure Routes to Ceramics **2012**, 501-517

151 Perovskite Structure Stability in Metal Oxynitrides. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2012**, 638, 1631-1631 1.3 1

150 Isotropic Negative Thermal Expansion in $\text{Bi}(\text{NCN})_2$ and Its Origin. *Journal of Physical Chemistry C*, **2012**, 116, 526-531 3.8 19

149 Carbon-rich SiOC anodes for lithium-ion batteries: Part I. Influence of material UV-pre-treatment on high power properties. *Solid State Ionics*, **2012**, 225, 522-526 3.3 67

148 Carbon-rich SiOC anodes for lithium-ion batteries: Part II. Role of thermal cross-linking. *Solid State Ionics*, **2012**, 225, 527-531 3.3 60

147 Silicon-containing polymer-derived ceramic nanocomposites (PDC-NCs): preparative approaches and properties. *Chemical Society Reviews*, **2012**, 41, 5032-52 58.5 229

146 Polymer Processing of Ceramics **2012**, 235-270 9

145 Sol-Gel Processing of Ceramics **2012**, 121-140

144 SiOC Glass/Diamond Composites. *Journal of the American Ceramic Society*, **2012**, 95, 545-552 3.8 3

143 Template-free synthesis of polymer-derived mesoporous SiOC/TiO₂ and SiOC/N-doped TiO₂ ceramic composites for application in the removal of organic dyes from contaminated water. *Applied Catalysis B: Environmental*, **2012**, 115-116, 303-313 21.8 56

142 trans-Bis(acetato- η^1)bis-(2-amino-ethanol- η^2)nickel(II). *Acta Crystallographica Section E: Structure Reports Online*, **2012**, 68, m567-8 4

141 Nanoporous Silicon Oxycarbonitride Ceramics Derived from Polysilazanes In situ Modified with Nickel Nanoparticles. *Chemistry of Materials*, **2011**, 23, 4112-4123 9.6 65

140 Modern Trends in Advanced Ceramics **2011**, 1-38 1

139 Characterization of the Materials Synthesized by High Pressure-High Temperature Treatment of a Polymer Derived t-BCN Ceramic. *Materials*, **2011**, 4, 2061-2072 3.5 4

138 Reply to the Comment on Piezoresistive Effect in SiOC Ceramics for Integrated Pressure Sensors. *Journal of the American Ceramic Society*, **2011**, 94, 290-290 3.8

137 Correlation Between Intrinsic Microstructure and Piezoresistivity in a SiOC Polymer-Derived Ceramic. *Journal of the American Ceramic Society*, **2011**, 95, n/a-n/a 3.8 9

136 Influence of the PVD sputtering method on structural characteristics of SiCN-coatings. Comparison of RF, DC and HiPIMS sputtering and target configurations. *Surface and Coatings Technology*, **2011**, 205, S119-S123 4.4 38

135 Sinter-HIP of polymer-derived Al₂O₃/SiC composites with high SiC contents. *Materials Letters*, **2011**, 65, 2462-2465 3.3 10

134	High-pressure high-temperature synthesis and structure of EMgSiN ₂ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 196-198	2.5	10
133	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
132	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
131	Determination of the Diffusion Coefficient of Lithium ions in Graphite Coated with Polymer-Derived SiCN Ceramic. <i>Ceramic Transactions</i> , 2011 , 143-152	0.1	
130	Effect of ambient atmosphere on crosslinking of polysilazanes. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 794-802	2.9	25
129	Low-temperature H ₂ sensing in self-assembled organotin thin films. <i>Chemical Communications</i> , 2011 , 47, 1464-6	5.8	20
128	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
127	Al ₂ O ₃ /SiC composites prepared by infiltration of pre-sintered alumina with a poly(allyl)carbosilane. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 111-119	6	13
126	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
125	Texture and micro-nanostructure of porous silicon oxycarbide glasses prepared from hybrid materials aged in different solvents. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1791-1801	6	21
124	Influence of nano-aluminum filler on the microstructure of SiOC ceramics. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 1779-1789	6	20
123	Synthesis and Characterization of AlSiC Nanocomposites Produced by Mechanical Milling and Sintering. <i>Advanced Composite Materials</i> , 2011 , 20, 13-27	2.8	9
122	Anion ordering in spinel-type gallium oxonitride. <i>Physical Review B</i> , 2011 , 84,	3.3	12
121	ORGANIC/INORGANIC MATERIALS FOR FAST CHARGING/DISCHARGING PROCESSES IN ENERGY STORAGE DEVICES. <i>Functional Materials Letters</i> , 2011 , 04, 193-197	1.2	4
120	Prevention of Solid Electrolyte Interphase Damaging on Silicon by Using Polymer Derived SiCN Ceramics. <i>ECS Transactions</i> , 2011 , 35, 37-44	1	7
119	Electrochemical Investigation of Lithium Intercalation in MOCVD Derived Nanostructured Anatase/Rutile TiO ₂ . <i>ECS Transactions</i> , 2011 , 35, 207-213	1	2
118	Polymer-Derived SiOC/ZrO ₂ Ceramic Nanocomposites with Excellent High-Temperature Stability. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 241-250	3.8	142
117	Piezoresistive Effect in SiOC Ceramics for Integrated Pressure Sensors. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 920-924	3.8	79

116	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
115	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
114	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
113	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
112	Silicon-Containing Polyimide-Based Polymers with High Temperature Stability. <i>Chemistry of Materials</i> , 2010 , 22, 3823-3825	9.6	13
111	^{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
110	Properties of SiCN coatings for high temperature applications [Comparison of RF-, DC- and HPPMS-sputtering. <i>Surface and Coatings Technology</i> , 2010 , 205, S21-S27	4.4	26
109	Active metal electrode-oxide interface in gas sensor operation probed by in situ and time-resolved X-ray spectroscopy. <i>ChemPhysChem</i> , 2010 , 11, 79-82	3.2	11
108	Multilayer Amorphous-Si-B-C-N/ Al_2O_3 / Al_2O_3 Membranes for Hydrogen Purification. <i>Advanced Engineering Materials</i> , 2010 , 12, 522-528	3.5	29
107	Synthesemethoden für keramische Materialien. Hochtechnologiewerkstoffe. <i>Chemie in Unserer Zeit</i> , 2010 , 44, 208-227	0.2	7
106	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
105	Electrochemical study of lithium insertion into carbon-rich polymer-derived silicon carbonitride ceramics. <i>Electrochimica Acta</i> , 2010 , 56, 174-182	6.7	57
104	Development of Graded Low Friction SiCN Coatings with Extended High Temperature Stability above 1200°C . <i>Plasma Processes and Polymers</i> , 2009 , 6, S649-S654	3.4	8
103	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
102	Carbon-rich SiCN ceramics derived from phenyl-containing poly(silylcarbodiimides). <i>Journal of the European Ceramic Society</i> , 2009 , 29, 2873-2883	6	125
101	Polymer-derived mullite/SiC-based nanocomposites. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 3079-3090	6	40
100	Crystallization behavior and controlling mechanism of iron-containing Si-C-N ceramics. <i>Inorganic Chemistry</i> , 2009 , 48, 10078-83	5.1	47
99	High-Pressure Synthesis, Electron Energy-Loss Spectroscopy Investigations, and Single Crystal Structure Determination of a Spinel-Type Gallium Oxonitride $\text{Ga}_{2.79}\text{O}_{2.21}(\text{O}_{3.05}\text{N}_{0.76})$. <i>Chemistry of Materials</i> , 2009 , 21, 2101-2107	9.6	36

98	Surfactant-free self-assembly route to hollow In ₂ O ₃ microspheres. <i>Chemical Communications</i> , 2009 , 2743-2749	3.9	24
97	Nanocubes or Nanorhombhedra? Unusual Crystal Shapes of Corundum-Type Indium Oxide. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9209-9213	3.8	42
96	Tuning of the Rheological Properties and Thermal Behavior of Boron-Containing Polysiloxanes. <i>Chemistry of Materials</i> , 2008 , 20, 3601-3608	9.6	29
95	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
94	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
93	Metastability of corundum-type In ₂ O ₃ . <i>Chemistry - A European Journal</i> , 2008 , 14, 3306-10	4.8	70
92	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
91	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
90	Thermal analysis study of polymer-to-ceramic conversion of organosilicon precursors. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2008 , 44, 35-38	1	8
89	In situ and operando spectroscopy for assessing mechanisms of gas sensing. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3826-48	16.4	288
88	In-situ- und Operando-Spektroskopie zur Untersuchung von Mechanismen der Gaserkennung. <i>Angewandte Chemie</i> , 2007 , 119, 3900-3923	3.6	31
87	The influence of post-sintering HIP on the microstructure, hardness, and indentation fracture toughness of polymer-derived Al ₂ O ₃ /SiC nanocomposites. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1237-1245	6	19
86	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
85	Influence of the Gas Atmosphere on the Composition and Phase Development of Polymer-Derived SiOC-Ceramics. <i>Journal of the American Ceramic Society</i> , 2007 , 91, 325-328	3.8	2
84	Mechanical characterization of a polysiloxane-derived SiOC glass. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 397-403	6	94
83	Elastic moduli and hardness of c-Zr ₂ .86(N _{0.88} O _{0.12}) ₄ having Th ₃ P ₄ -type structure. <i>Applied Physics Letters</i> , 2007 , 90, 191910	3.4	13
82	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
81	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

80	High-pressure chemistry of nitride-based materials. <i>Chemical Society Reviews</i> , 2006 , 35, 987-1014	58.5	185
79	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
78	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
77	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
76	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
75	Equation of state of cubic hafnium(IV) nitride having Th3P4 -type structure. <i>Solid State Communications</i> , 2006 , 139, 255-258	1.6	29
74	Potassium melonate, K ₃ [C ₆ N ₇ (NCN) ₃]·6H ₂ O, 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
73	Newtonian Viscosity of Amorphous Silicon Carbonitride at High Temperature. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 1349-1352	3.8	147
72	High-Pressure Synthesis of a Gallium Oxonitride with a Spinel-Type Structure.. <i>ChemInform</i> , 2005 , 36, no		1
71	Synthesis of Nanocrystalline Zr ₃ N ₄ and Hf ₃ N ₄ Powders from Metal Dialkylamides. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005 , 631, 1449-1455	1.3	30
70	High-Pressure Synthesis of a Gallium Oxonitride with a Spinel-Type Structure. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2005 , 60, 831-836	1	25
69	Polymer-Derived Al ₂ O ₃ -SiC Nanocomposites: Preparation Route vs. Microstructure. <i>Key Engineering Materials</i> , 2005 , 290, 121-128	0.4	6
68	Synthesis and Structure of Three-Dimensionally Ordered Graphitelike BC ₂ N Ternary Crystals. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 279-82	3.8	21
67	Oxidation Kinetics of an Amorphous Silicon Carbonitride Ceramic. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1803-1810	3.8	92
66	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
65	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
64	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
63	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

62	Elastic Moduli and Hardness of Cubic Silicon Nitride. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 86-90	3.8	122
61	Monoclinic Zirconia Bodies by Thermoplastic Ceramic Extrusion. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 358-364	3.8	6
60	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
59	Amorphous SiBCO ceramics derived from novel polymeric precursors. <i>Comptes Rendus Chimie</i> , 2004 , 7, 463-469	2.7	22
58	Sol Gel Modelling Associated with the Rheology of Polymeric Precursors of Ceramic Materials. <i>Applied Rheology</i> , 2003 , 13, 251-258	1.2	1
57	Synthesis and characterization of alkylene-bridged silsesquicarbodiimide hybrid xerogels. <i>Journal of Organometallic Chemistry</i> , 2003 , 686, 127-133	2.3	24
56	Synthesis of cubic zirconium and hafnium nitride having Th3P4 structure. <i>Nature Materials</i> , 2003 , 2, 185-197	2.7	268
55	B/C/N Materials and B4C Synthesized by a Non-Oxide SolGel Process. <i>Chemistry of Materials</i> , 2003 , 15, 755-764	9.6	32
54	Solid-state NMR investigations of the polymer route to SiBCN ceramics. <i>Canadian Journal of Chemistry</i> , 2003 , 81, 1359-1369	0.9	35
53	Spinel sialons. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 789-93	16.4	30
52	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
51	A SolGel Route to B4C. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 1698-1700	16.4	27
50	Nanoindentation of a Polymer-Derived Amorphous Silicon Carbonitride Ceramic. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 1164-1166	3.8	41
49	Silazane derived ceramics and related materials. <i>Materials Science and Engineering Reports</i> , 2000 , 26, 97-199	30.9	361
48	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
47	Synthesis of silyl substituted organoboranes by hydroboration of vinylsilanes. <i>Polyhedron</i> , 2000 , 19, 323-330	3.7	41
46	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
45	Viscoelastic Properties of Novel Silicon Carbodiimide Gels. <i>Macromolecules</i> , 2000 , 33, 3404-3408	5.5	26

44	Silylated carbodiimides in molecular and extended structures. <i>Physical Review B</i> , 1999 , 60, 3126-3139	3.3	30
43	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
42	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
41	Synthesis of cubic silicon nitride. <i>Nature</i> , 1999 , 400, 340-342	50.4	549
40	An anhydrous sol-gel system derived from methyldichlorosilane. <i>Applied Organometallic Chemistry</i> , 1999 , 13, 495-499	3.1	27
39	Thermal Decomposition of Poly(methylsilsesquicarbodiimide) to Amorphous SiCN Ceramics. <i>Chemistry of Materials</i> , 1999 , 11, 412-420	9.6	31
38	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
37	Inorganic Solid-State Chemistry with Main Group Element Carbodiimides. <i>Chemistry of Materials</i> , 1998 , 10, 2964-2979	9.6	120
36	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
35	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
34	The First Crystalline Solids in the Ternary Si-C-N System. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 603-606		139
33	Nichtoxidische Silicium-Keramiken über einen wasserfreien Sol-Gel-Prozess. <i>Angewandte Chemie</i> , 1997 , 109, 371-373	3.6	15
32	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
31	Boron-modified Inorganic Polymers—Precursors for the Synthesis of Multicomponent Ceramics. <i>Applied Organometallic Chemistry</i> , 1996 , 10, 241-256	3.1	59
30	Chemical formation of ceramics. <i>Ceramics International</i> , 1996 , 22, 233-239	5.1	72
29	A silicoboron carbonitride ceramic stable to 2,000°C. <i>Nature</i> , 1996 , 382, 796-798	50.4	578
28	A covalent micro/nano-composite resistant to high-temperature oxidation. <i>Nature</i> , 1995 , 374, 526-528	50.4	266
27	From molecules to materials—a novel route for the synthesis of advanced ceramics. <i>Die Naturwissenschaften</i> , 1995 , 82, 12-20	2	10

26	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
25	From Molecules to Materials ? A Novel Route for the Synthesis of Advanced Ceramics. <i>Die Naturwissenschaften</i> , 1995 , 82, 12-20	2	22
24	Crystallization kinetics of polysilazane-derived amorphous silicon nitride. <i>Journal of Crystal Growth</i> , 1994 , 137, 452-456	1.6	26
23	Synthese und Struktur des ersten oligomeren cyclischen Dimethylsilyl-substituierten Carbodiimids. <i>Chemische Berichte</i> , 1993 , 126, 2569-2571		42
22	Preparation of spinel ultrafiltration membranes. <i>Advanced Materials</i> , 1992 , 4, 662-665	24	9
21	Crystallization behaviour of amorphous silicon nitride. <i>Journal of the European Ceramic Society</i> , 1991 , 7, 21-25	6	55
20	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
19	A novel carbon material derived from pyridineBorane. <i>Advanced Materials</i> , 1991 , 3, 551-552	24	66
18	AES investigations on starting powders for high performance ceramics. <i>Mikrochimica Acta</i> , 1990 , 101, 207-218	5.8	5
17	Characterization of AlN powder produced by the reaction of AlCl ₃ with hexamethyldisilazane. <i>Journal of Materials Science Letters</i> , 1990 , 9, 222-224		23
16	Phase Transitions and Material Synthesis using the CO ₂ -Laser Heating Technique in a Diamond Cell41-65		10
15	Silicon Nitride Based Hard Materials749-801		10
14	Polymer-Derived Ceramics (PDCs)1108-1139		2
13	Microstructure and Mechanical Properties of Polymer-Derived Al ₂ O ₃ -SiC Micro-Nano Composites. <i>Ceramic Transactions</i> ,151-160	0.1	
12	Al ₂ O ₃ -SiC Nanocomposites by Infiltration of Alumina Matrix with a Liquid Polycarbosilane. <i>Ceramic Transactions</i> ,85-99	0.1	
11	Ceramic Lighting415-445		
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7 Electrically conductive silicon oxycarbide thin films prepared from preceramic polymers. *International Journal of Applied Ceramic Technology*, 2003, 2, 3

6 A Novel Non-Oxide Sol-Gel Process to Si-C-N Ceramics. *Ceramic Engineering and Science Proceedings*, 2000, 21(1), 713-720

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