Qing Huang

List of Publications by Year in Descending Order

395 papers	12,753 citations	55 h-index	99 g-index
419 ext. papers	16,066 ext. citations	6.4 avg, IF	6.73 L-index

#	Paper	IF	Citations
395	A Semiconductor-Mediator-Catalyst Artificial Photosynthetic System for Photoelectrochemical Water Oxidation.. *Chemistry - A European Journal*, **2022**, e202102630	4.8	0
394	Synthesis and thermal expansion of chalcogenide MAX phase Hf2SeC. *Journal of the European Ceramic Society*, **2022**, 42, 2084-2088	6	2
393	Effect of A-site atom on static corrosion behavior and irradiation damage of Ti2SC phases. *Journal of the American Ceramic Society*, **2022**, 105, 1386	3.8	
392	The thermal and elastic properties of U3Si5 and their variations induced by incorporated aluminum. *Journal of Nuclear Materials*, **2022**, 558, 153331	3.3	0
391	Modification of Surfaces of Reduced-Activation Ferritic–Martensitic Steels upon Irradiation by Pulsed Deuterium Plasma with Parameters Typical for Peripheral Plasma Disruption. *Journal of Surface Investigation*, **2022**, 16, 23-32	0.5	1
390	Depth profile analysis of oxidized nuclear graphite microstructures using micro-focused synchrotron X-ray diffraction. *Journal of Materials Science*, **2022**, 57, 6320-6334	4.3	
389	Synthesis, characterization, and magnetic properties of rare earth containing Mo4/3RE2/3AlB2 i-MAB phases. *Materials Research Letters*, **2022**, 10, 295-300	7.4	
388	Polymer derived SiBCN(O) ceramics with tunable element content. *Ceramics International*, **2022**, 48, 10280-10287	5.1	3
387	The oxidation mechanisms of the Xe20+ ion-irradiated Cr coatings on Zr alloy coupons: Accelerated diffusion and internal oxidation. *Corrosion Science*, **2022**, 201, 110301	6.8	1
386	Ecological circular agriculture: A case study evaluating biogas slurry applied to rice in two soils.. *Chemosphere*, **2022**, 134628	8.4	1
385	Pressure Tuned Structural, Electronic and Elastic Properties of U3Si2C2: A First Principles Study. *Crystals*, **2021**, 11, 1420	2.3	
384	Facile synthesis of a carbon-rich SiAlCN precursor and investigation of its structural evolution during the polymer-ceramic conversion process. *Ceramics International*, **2021**, 48, 3311-3311	5.1	
383	Intrinsic voltage plateau of a Nb2CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning. *Joule*, **2021**,	27.8	20
382	Investigations of the stability and electronic structures of U3Si2-Al: A first-principles study. *Chemical Physics*, **2021**, 543, 111088	2.3	2
381	Pseudo low-temperature sintering effect and microstructure evolution of SiBCO ceramics. *Ceramics International*, **2021**, 47, 8888-8894	5.1	0
380	First-principles investigations on the electronic structures, polycrystalline elastic properties, ideal strengths and elastic anisotropy of U3Si2. *European Physical Journal Plus*, **2021**, 136, 1	3.1	1
379	Microstructure and properties of nano-laminated Y3Si2C2 ceramics fabricated via in situ reaction by spark plasma sintering. *Journal of Advanced Ceramics*, **2021**, 10, 578-586	10.7	3

378	Exploring U3Si2-based alloys through phase diagram investigations. *Journal of Nuclear Materials*, **2021**, 547, 152770	3.3	0
377	Enhanced plasticity of the oxide scales by in-situ formed Cr2O3/Cr heterostructures for Cr-based coatings on Zr alloy in 1200 ℃ steam. *Corrosion Science*, **2021**, 184, 109361	6.8	8
376	V2CTx and Ti3C2Tx MXenes Nanosheets for Gas Sensing. *ACS Applied Nano Materials*, **2021**, 4, 6257-6268	5.6	9
375	First-principles studies on behaviors of He impurities in d-MAX phase Zr3Al3C5. *Journal of Nuclear Materials*, **2021**, 544, 152653	3.3	
374	Application of Atomic Layer Deposition in Dye-Sensitized Photoelectrosynthesis Cells. *Trends in Chemistry*, **2021**, 3, 59-71	14.8	3
373	Medium-entropy (Ti, Zr, Hf)2SC MAX phase. *Ceramics International*, **2021**, 47, 7582-7587	5.1	6
372	Joining of Ti-coated monolithic SiC using a SiCw/Ti3SiC2 filler by electric field-assisted sintering. *Journal of the European Ceramic Society*, **2021**, 41, 1834-1840	6	4
371	MAX Phase Ceramics/Composites with Complex Shapes. *ACS Applied Materials & Interfaces*, **2021**, 13, 5645-5651	9.5	1
370	Crosslinking of Active Polycarbosilane Initiated by Free Radical and Its Application in the Preparation of SiC Fibers. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2021**, 36, 967	1	0
369	Activating the I0/I+ redox couple in an aqueous I2⁄Zn battery to achieve a high voltage plateau. *Energy and Environmental Science*, **2021**, 14, 407-413	35.4	38
368	Confining Aqueous Zn-Br Halide Redox Chemistry by TiCT MXene. *ACS Nano*, **2021**, 15, 1718-1726	16.7	28
367	Molten Salt Synthesis of Nanolaminated Sc2SnC MAX Phase. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2021**, 36, 773	1	4
366	Helium-induced damage in USi by first-principles studies.. *RSC Advances*, **2021**, 11, 26920-26927	3.7	
365	Halogenated TiC MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. *ACS Nano*, **2021**, 15, 1077-1085	16.7	50
364	High-Temperature Resistant Polyborosilazanes with Tailored Structures. *Polymers*, **2021**, 13,	4.5	1
363	Two-Dimensional Carbonitride MXenes as an Efficient Electrocatalyst for Hydrogen Evolution. *Journal of Physical Chemistry C*, **2021**, 125, 4477-4488	3.8	3
362	Electrochemical Lithium Storage Performance of Molten Salt Derived VSnC MAX Phase. *Nano-Micro Letters*, **2021**, 13, 158	19.5	4
361	MAX phase Zr2SeC and its thermal conduction behavior. *Journal of the European Ceramic Society*, **2021**, 41, 4447-4451	6	6

360	Li-ion storage properties of two-dimensional titanium-carbide synthesized via fast one-pot method in air atmosphere. *Nature Communications*, **2021**, 12, 5085	17.4	18
359	Effect of the 345 ℃ and 16.5 MPa autoclave corrosion on the oxidation behavior of Cr-coated zirconium claddings in the high-temperature steam. *Corrosion Science*, **2021**, 189, 109608	6.8	8
358	Low temperature seamless joining of SiC using a Ytterbium film. *Journal of the European Ceramic Society*, **2021**, 41, 7507-7507	6	0
357	Near-room temperature ferromagnetic behavior of single-atom-thick 2D iron in nanolaminated ternary MAX phases. *Applied Physics Reviews*, **2021**, 8, 031418	17.3	2
356	Toward a Practical Zn Powder Anode: TiCT MXene as a Lattice-Match Electrons/Ions Redistributor. *ACS Nano*, **2021**, 15, 14631-14642	16.7	26
355	The effect of nano-silica on the properties of magnesium oxychloride cement. *Advances in Cement Research*, **2021**, 33, 413-422	1.8	
354	The studies of electronic structure, mechanical properties and ideal fracture behavior of U3Si1.75Al0.25: first-principle investigations. *Journal of Materials Research and Technology*, **2021**, 15, 1356-1369	5.5	2
353	Zr2Al3C4 Coatings on Zirconium-alloy Substrates with Enhanced Adhesion and Diffusion Barriers by Al/Mo-C Interlayers. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2021**, 36, 541	1	0
352	Enhanced Redox Kinetics and Duration of Aqueous I /I Conversion Chemistry by MXene Confinement. *Advanced Materials*, **2021**, 33, e2006897	24	39
351	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated TiC MXenes.. *ACS Nano*, **2021**,	16.7	15
350	Effect of low-dose Xe20+ ion irradiation on the deformation behavior of the magnetron sputtered Cr coatings under nanoindentation. *Surface and Coatings Technology*, **2021**, 428, 127907	4.4	1
349	The compositional dependence of structural stability and resulting properties for Mn+1CnT2 (M = Sc, Ti, V; T = O, OH, F, Cl, Br and I; n = 1, 2): first-principle investigations. *Journal of Materials Research and Technology*, **2020**, 9, 14979-14989	5.5	0
348	Ion-beam-assisted characterization of quinoline-insoluble particles in nuclear graphite. *Nuclear Science and Techniques/Hewuli*, **2020**, 31, 1	2.1	4
347	2D foaming of ultrathin MXene sheets with highly conductive silver nanowires for wearable electromagnetic interference shielding applications owing to multiple reflections within created free space. *Nano Futures*, **2020**, 4, 035002	3.6	8
346	Mesoporous Polymer-Derived Ceramic Membranes for Water Purification via a Self-Sacrificed Template. *ACS Omega*, **2020**, 5, 11100-11105	3.9	5
345	Insight into Adsorption Performance and Mechanism on Efficient Removal of Methylene Blue by Accordion-like VCT MXene. *Journal of Physical Chemistry Letters*, **2020**, 11, 4253-4260	6.4	27
344	A molecular tandem cell for efficient solar water splitting. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13256-13260	11.5	17
343	The application of molecular simulation in ash chemistry of coal. *Chinese Journal of Chemical Engineering*, **2020**, 28, 2723-2732	3.2	1

342	Synthesis of cyano-polycarbosilane and investigation of its pyrolysis process. *Journal of the European Ceramic Society*, **2020**, 40, 5226-5237	6	6
341	Ti3AlC2, a candidate structural material for innovative nuclear energy system: The microstructure phase transformation and defect evolution induced by energetic heavy-ion irradiation. *Acta Materialia*, **2020**, 189, 188-203	8.4	18
340	The role of Hume-Rothery's rules play in the MAX phases formability. *Materialia*, **2020**, 12, 100810	3.2	8
339	The role of nuclear charges in unifying the descriptions of neural networks (NN)-based force fields. *Materials Letters*, **2020**, 276, 128262	3.3	
338	Preparation of highly porous SiC via ceramic precursor conversion and evaluation of its thermal insulation performance. *Advances in Applied Ceramics*, **2020**, 119, 398-406	2.3	0
337	Multimachine Communication Network That Mimics the Adaptive Immune Response. *Journal of the American Chemical Society*, **2020**, 142, 3851-3861	16.4	8
336	Thermodynamic description of the Dy□SiC system in silicon carbide ceramics. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2020**, 68, 101738	1.9	6
335	Mechanism of Al on FeCrAl steam oxidation behavior and molecular dynamics simulations. *Journal of Alloys and Compounds*, **2020**, 828, 154310	5.7	18
334	Electric Field Effect on the Reactivity of Solid State Materials: The Case of Single Layer Graphene. *Advanced Functional Materials*, **2020**, 30, 1909269	15.6	5
333	Preparation of TiCT/NiZn Ferrite Hybrids with Improved Electromagnetic Properties. *Materials*, **2020**, 13,	3.5	1
332	Preparation and stereolithography of SiC ceramic precursor with high photosensitivity and ceramic yield. *Ceramics International*, **2020**, 46, 13066-13072	5.1	14
331	Thermodynamic descriptions of the light rare-earth elements in silicon carbide ceramics. *Journal of the American Ceramic Society*, **2020**, 103, 3812-3825	3.8	4
330	Ultrafine-grained W alloy prepared by spark plasma sintering with high thermal stability and excellent irradiation resistance. *Nuclear Fusion*, **2020**, 60, 036006	3.3	2
329	Pore Structure of Nuclear Graphite Obtained via Synchrotron Computed Tomography. *Journal of Nondestructive Evaluation*, **2020**, 39, 1	2.1	1
328	Long-term oxidation resistance and deterioration mechanism of magnetron sputtered Cr-Al-Si-N coatings on zirconium alloys in 1200 □C steam atmosphere. *Corrosion Science*, **2020**, 171, 108603	6.8	4
327	Fabrication, microstructure, and properties of SiC/Al4SiC4 multiphase ceramics via an in-situ formed liquid phase sintering. *Journal of Advanced Ceramics*, **2020**, 9, 193-203	10.7	22
326	A general Lewis acidic etching route for preparing MXenes with enhanced electrochemical performance in non-aqueous electrolyte. *Nature Materials*, **2020**, 19, 894-899	27	368
325	First-principles study of magnetism in some novel MXene materials.. *RSC Advances*, **2020**, 10, 44430-44436	3.7	1

324	Two-dimensional semiconducting LuCT (T = F, OH) MXene with low work function and high carrier mobility. *Nanoscale*, **2020**, 12, 3795-3802	7.7	14
323	Mo2B, an MBene member with high electrical and thermal conductivities, and satisfactory performances in lithium ion batteries. *Nanoscale Advances*, **2020**, 2, 347-355	5.1	11
322	Phase Transition Induced Unusual Electrochemical Performance of VCT MXene for Aqueous Zinc Hybrid-Ion Battery. *ACS Nano*, **2020**, 14, 541-551	16.7	99
321	Multielemental single-atom-thick layers in nanolaminated V(Sn,) C (= Fe, Co, Ni, Mn) for tailoring magnetic properties. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 820-825	11.5	42
320	Structural, mechanical and electronic properties of two-dimensional chlorine-terminated transition metal carbides and nitrides. *Journal of Physics Condensed Matter*, **2020**, 32, 135302	1.8	6
319	The preparation of SiC ultrafine fibers containing low amount of oxygen by the electrospinning and pyrolysis of vinyl-modified polycarbosilane. *Ceramics International*, **2020**, 46, 9894-9900	5.1	9
318	Preparation of hollow SiC ceramic fibre from polycarbosilane fibre by diffusion-controlled cross-linking method. *Advances in Applied Ceramics*, **2020**, 119, 166-173	2.3	1
317	Latent Tracks in Ion-Irradiated LiTaO3 Crystals: Damage Morphology Characterization and Thermal Spike Analysis. *Crystals*, **2020**, 10, 877	2.3	3
316	First-principles investigations on the anisotropic elasticity and thermodynamic properties of USi-Al.. *RSC Advances*, **2020**, 10, 35049-35056	3.7	4
315	Theoretical study on the electrical and mechanical properties of MXene multilayer structures through strain regulation. *Chemical Physics Letters*, **2020**, 760, 137997	2.5	6
314	Influence of porosity on anisotropic thermal conductivity of SiC fiber reinforced SiC matrix composite: A microscopic modeling study. *Ceramics International*, **2020**, 46, 28693-28700	5.1	6
313	Theoretical investigations on structural and thermo-mechanical properties of layered ternary carbide Th$_2$AlC systems. *Journal of Nuclear Materials*, **2020**, 540, 152358	3.3	4
312	High-strength SiC joints with a novel in-situ formed SiC/Al4SiC4 joining filler. *Journal of the European Ceramic Society*, **2020**, 40, 5172-5179	6	8
311	Fabrication of SiCw/Ti3SiC2 composites with improved thermal conductivity and mechanical properties using spark plasma sintering. *Journal of Advanced Ceramics*, **2020**, 9, 462-470	10.7	21
310	Amorphous carbon to graphene: Carbon diffusion via nickel catalyst. *Materials Letters*, **2020**, 278, 128468	3.3	2
309	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. *Advanced Energy Materials*, **2020**, 10, 2001791	21.8	56
308	Preparation of SiC ceramic fiber from a photosensitive polycarbosilane. *Ceramics International*, **2020**, 46, 28300-28307	5.1	3
307	Vertically Aligned Sn4+ Preintercalated Ti2CTX MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. *Advanced Energy Materials*, **2020**, 10, 2001394	21.8	71

306	Theoretical exploration on the vibrational and mechanical properties of M3C2/M3C2T2 MXenes. *International Journal of Quantum Chemistry*, **2020**, 120, e26409	2.1	1
305	Nanostructures and nanomechanical properties of ion-irradiated HOPG. *Carbon Letters*, **2020**, 31, 593	2.3	1
304	Stabilization of a molecular water oxidation catalyst on a dye-sensitized photoanode by a□pyridyl anchor. *Nature Communications*, **2020**, 11, 4610	17.4	12
303	Long-term mechanical properties and micro mechanism of magnesium oxychloride cement concrete. *Advances in Cement Research*, **2020**, 32, 371-378	1.8	7
302	Materials development and potential applications of transparent ceramics: A review. *Materials Science and Engineering Reports*, **2020**, 139, 100518	30.9	89
301	Corrosion behavior of ion-irradiated SiC in FLiNaK molten salt. *Corrosion Science*, **2020**, 163, 108229	6.8	9
300	Almost seamless joining of SiC using an in-situ reaction transition phase of Y3Si2C2. *Journal of the European Ceramic Society*, **2020**, 40, 259-266	6	10
299	Theoretical investigations on the U2Mo3Si4 compound from first-principles calculations. *Progress in Nuclear Energy*, **2020**, 118, 103121	2.3	2
298	Seamless joining of silicon carbide ceramics through an sacrificial interlayer of Dy3Si2C2. *Journal of the European Ceramic Society*, **2019**, 39, 5457-5462	6	10
297	A Study on the Periodic Rule of Reduction Potentials of Lanthanides on Liquid Zinc Electrode. *Journal of the Electrochemical Society*, **2019**, 166, D689-D693	3.9	3
296	Synthesis of MAX phases Nb2CuC and Ti2(Al0.1Cu0.9)N by A-site replacement reaction in molten salts. *Materials Research Letters*, **2019**, 7, 510-516	7.4	27
295	Developing a liquid and curable two-component precursor system for fabrication of SiC(N)-based composites. *Ceramics International*, **2019**, 45, 24007-24013	5.1	1
294	Two-Dimensional Hydroxyl-Functionalized and Carbon-Deficient Scandium Carbide, ScC OH, a Direct Band Gap Semiconductor. *ACS Nano*, **2019**, 13, 1195-1203	16.7	24
293	Crosslinking kinetics of polycarbosilane precursor in ozone atmosphere and the formation mechanism of continuous hollow SiC fiber. *Journal of the European Ceramic Society*, **2019**, 39, 2028-2035	6	6
292	Irradiation behavior of Cf/SiC composite with titanium carbide (TiC)-based interphase. *Journal of Nuclear Materials*, **2019**, 523, 10-15	3.3	0
291	A Wholly Degradable, Rechargeable Zn-TiC MXene Capacitor with Superior Anti-Self-Discharge Function. *ACS Nano*, **2019**, 13, 8275-8283	16.7	145
290	First-principles study of the electronic, optical and transport of few-layer semiconducting MXene. *Computational Materials Science*, **2019**, 168, 137-143	3.2	11
289	Effects of aluminium content on the molecular structure and properties of polyaluminocarbosilane for SiC fibre fabrication. *Ceramics International*, **2019**, 45, 16380-16386	5.1	5

288	Porosity analysis of superfine-grain graphite IG-110 and ultrafine-grain graphite T220. *Materials Science and Technology*, **2019**, 35, 962-968	1.5	6
287	Rheokinetics and Characteristics of Resulted Gels during Isothermal Gelation Process for Lower Concentrated PAN/DMSO/H2O Solutions. *Polymer Science - Series B*, **2019**, 61, 77-85	0.8	1
286	Electronic structures, mechanical properties and defect formation energies of U3Si5 from density functional theory calculations. *Progress in Nuclear Energy*, **2019**, 116, 87-94	2.3	5
285	Mutual Identification between the Pressure-Induced Superlubricity and the Image Contrast Inversion of Carbon Nanostructures from AFM Technology. *Journal of Physical Chemistry Letters*, **2019**, 10, 1498-1504	6.4	11
284	Tuning the Electrical Conductivity of Ti2CO2 MXene by Varying the Layer Thickness and Applying Strains. *Journal of Physical Chemistry C*, **2019**, 123, 6802-6811	3.8	25
283	Disorder in MAX phases at the atomic scale. *Nature Communications*, **2019**, 10, 622	17.4	13
282	Highly effective free-radical-catalyzed curing of hyperbranched polycarbosilane for near stoichiometric SiC ceramics. *Journal of the American Ceramic Society*, **2019**, 102, 1041-1048	3.8	9
281	Predictions of the structures and properties of the substituted layered ternary compound series (Zr T)AlC (T = Hf, Nb, and V) through first-principles studies. *Journal of Physics Condensed Matter*, **2019**, 31, 385702	1.8	1
280	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti(AlCu)C and Its Artificial Enzyme Behavior. *ACS Nano*, **2019**, 13, 9198-9205	16.7	31
279	Thermodynamic description of the sintering aid system in silicon carbide ceramics with the addition of yttrium. *Journal of the European Ceramic Society*, **2019**, 39, 4510-4519	6	9
278	Tin+1Cn MXenes with fully saturated and thermally stable Cl terminations. *Nanoscale Advances*, **2019**, 1, 3680-3685	5.1	49
277	Crystalline structure in SiC fibers driven by pyrolysis temperature and time. *Journal of the Ceramic Society of Japan*, **2019**, 127, 117-122	1	2
276	Non-MAX Phase Precursors for MXenes **2019**, 53-68		5
275	Rational Design of Flexible Two-Dimensional MXenes with Multiple Functionalities. *Chemical Reviews*, **2019**, 119, 11980-12031	68.1	137
274	Synthesis of Novel MAX Phase Ti3ZnC2 via A-site-element-substitution Approach. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2019**, 34, 60	1	8
273	Synthesis and Theoretical Study of Conductive Mo1.33CT2 MXene. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2019**, 34, 775	1	1
272	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. *Journal of the American Chemical Society*, **2019**, 141, 4730-4737	16.4	355
271	First-principles study on the stability and properties of β-SiC/M+1AlC (M=Sc, Ti, V, Cr, Zr, Nb, Mo, Hf, Ta; n=1,2) interfaces. *Journal of Physics and Chemistry of Solids*, **2019**, 127, 119-126	3.9	4

270	Interface modification of carbon fibers with TiC/Ti2AlC coating and its effect on the tensile strength. *Ceramics International*, **2019**, 45, 4661-4666	5.1	7
269	Synthesis of Zr2Al3C4 coatings on zirconium-alloy substrates with AlC/Si interlayers as diffusion barriers. *Vacuum*, **2019**, 160, 128-132	3.7	2
268	A new precursor of liquid and curable polysiloxane for highly cost-efficient SiOC-based composites. *Ceramics International*, **2019**, 45, 7044-7048	5.1	9
267	Pore structure evolution of IG-110 graphite during argon ion irradiation at 600 °C. *Journal of Materials Science*, **2019**, 54, 6098-6110	4.3	4
266	Comparison of irradiation tolerance of two MAX phases-Ti4AlN3 and Ti2AlN. *Journal of Nuclear Materials*, **2019**, 513, 120-128	3.3	5
265	Adsorption Behaviors and Phase Equilibria for Clathrate Hydrates of Sulfur- and Nitrogen-Containing Small Molecules. *Journal of Physical Chemistry C*, **2019**, 123, 2691-2702	3.8	2
264	Development of interatomic potentials for Fe-Cr-Al alloy with the particle swarm optimization method. *Journal of Alloys and Compounds*, **2019**, 780, 881-887	5.7	16
263	Viscosity temperature properties from molecular dynamics simulation: The role of calcium oxide, sodium oxide and ferrous oxide. *Fuel*, **2019**, 237, 163-169	7.1	18
262	Mechanistic Quantification of Thermodynamic Stability and Mechanical Strength for Two-Dimensional Transition-Metal Carbides. *Journal of Physical Chemistry C*, **2018**, 122, 4710-4722	3.8	22
261	Structural Distortion and Defects in Ti 3 AlC 2 irradiated by Fe and He Ions. *Chinese Physics Letters*, **2018**, 35, 026102	1.8	3
260	Residual thermal stress of SiC/Ti3SiC2/SiC joints calculation and relaxed by postannealing. *International Journal of Applied Ceramic Technology*, **2018**, 15, 1157-1165	2	12
259	Phonon-mediated stabilization and softening of 2D transition metal carbides: case studies of TiCO and MoCO. *Physical Chemistry Chemical Physics*, **2018**, 20, 14608-14618	3.6	6
258	Bipolar magnetic semiconductors among intermediate states during the conversion from ScC(OH) to ScCO MXene. *Nanoscale*, **2018**, 10, 8763-8771	7.7	18
257	Synthesis and properties of conductive B4C ceramic composites with TiB2 grain network. *Journal of the American Ceramic Society*, **2018**, 101, 3780-3786	3.8	21
256	Novel Scale-Like Structures of Graphite/TiC/Ti3C2 Hybrids for Electromagnetic Absorption. *Advanced Electronic Materials*, **2018**, 4, 1700617	6.4	61
255	Copper/SiC whiskers composites with interface optimized by Ti3SiC2. *Journal of Materials Science*, **2018**, 53, 9806-9815	4.3	7
254	Improved oxidation resistance of zirconium at high-temperature steam by magnetron sputtered Cr-Al-Si ternary coatings. *Surface and Coatings Technology*, **2018**, 350, 841-847	4.4	18
253	Coal ash fusion properties from molecular dynamics simulation: the role of calcium oxide. *Fuel*, **2018**, 216, 760-767	7.1	26

252	The influences of carbon nanotubes introduced in three different phases of carbon fiber/pyrolytic carbon/silicon carbide composites on microstructure and properties of their composites. *Carbon*, **2018**, 129, 409-414	10.4	17
251	Abnormal grain growth of UO2 with pores in the final stage of sintering: A phase field study. *Computational Materials Science*, **2018**, 145, 24-34	3.2	5
250	How Vertical Compression Triggers Lateral Interlayer Slide for Metallic Molybdenum Disulfide?. *Tribology Letters*, **2018**, 66, 1	2.8	8
249	Superlubricity Enabled by Pressure-Induced Friction Collapse. *Journal of Physical Chemistry Letters*, **2018**, 9, 2554-2559	6.4	48
248	Low-temperature synthesis of uranium monocarbide by a Pechini-type in situ polymerizable complex method. *Journal of the American Ceramic Society*, **2018**, 101, 2786-2795	3.8	
247	Opening Magnesium Storage Capability of Two-Dimensional MXene by Intercalation of Cationic Surfactant. *ACS Nano*, **2018**, 12, 3733-3740	16.7	141
246	The effect of He bubbles on the swelling and hardening of UNS N10003 alloy. *Journal of Alloys and Compounds*, **2018**, 746, 153-158	5.7	15
245	The critical issues of SiC materials for future nuclear systems. *Scripta Materialia*, **2018**, 143, 149-153	5.6	79
244	Characterisation of multiphase ceramic coatings fabricated via laser in situ reaction technology. *Surface Engineering*, **2018**, 34, 301-308	2.6	4
243	A theoretical investigation and synthesis of layered ternary carbide system U-Al-C. *Ceramics International*, **2018**, 44, 1646-1652	5.1	8
242	Elastic, mechanical, electronic, and defective properties of Zr$_2$AlC nanolaminates from first principles. *Journal of the American Ceramic Society*, **2018**, 101, 756-772	3.8	7
241	Theoretical studies on microstructures, stabilities and formation conditions of some sour gas in the type I, II, and H clathrate hydrates. *Journal of Molecular Structure*, **2018**, 1153, 292-298	3.4	0
240	Reprint of: The development of cladding materials for the accident tolerant fuel system from the Materials Genome Initiative. *Scripta Materialia*, **2018**, 143, 129-136	5.6	7
239	Low temperature synthesis of TaB2 nanorods by molten-salt assisted borothermal reduction. *Journal of the American Ceramic Society*, **2018**, 101, 45-49	3.8	11
238	First-principles study on the electrical and thermal properties of the semiconducting Sc(CN)F MXene.. *RSC Advances*, **2018**, 8, 22452-22459	3.7	14
237	Strong and biocompatible poly(lactic acid) membrane enhanced by Ti3C2Tz (MXene) nanosheets for Guided bone regeneration. *Materials Letters*, **2018**, 229, 114-117	3.3	46
236	Fabrication and characterization of SPS sintered SiC-based ceramic from Y3Si2C2-coated SiC powders. *Journal of the European Ceramic Society*, **2018**, 38, 4833-4841	6	17
235	New formulation for reduction potentials of (Cu, Ni, Al, Zn)–lanthanide alloys—Implications for electrolysis-based pyroprocessing of spent nuclear fuel. *Electrochemistry Communications*, **2018**, 93, 180-182	5.1	4

234	The effects of phenolic resin-derived PyC interlayers on microstructure and mechanical properties of Cf/SiC composites. *Ceramics International*, **2018**, 44, 16157-16163	5.1	2
233	A multiscale hydrothermal carbon layer modified carbon fiber for composite fabrication.. *RSC Advances*, **2018**, 8, 23339-23347	3.7	6
232	Effects of Different Surface Functionalization and Doping on the Electronic Transport Properties of M2CTx/M2CO2 Heterojunction Devices. *Journal of Physical Chemistry C*, **2018**, 122, 14908-14917	3.8	15
231	SiC ceramics joined with an in-situ reaction gradient layer of TiC/Ti3SiC2 and interface stress distribution simulations. *Ceramics International*, **2018**, 44, 15785-15794	5.1	16
230	Recent progress in the development of SiC composites for nuclear fusion applications. *Journal of Nuclear Materials*, **2018**, 511, 544-555	3.3	70
229	Microstructure damage in silicon carbide fiber induced by 246.8-MeV Ar-ion irradiation. *Nuclear Instruments & Methods in Physics Research B*, **2018**, 435, 169-173	1.2	1
228	Role of the X and n factors in ion-irradiation induced phase transformations of Mn+1AXn phases. *Acta Materialia*, **2018**, 144, 432-446	8.4	17
227	Synthesis of polyaluminocarbosilane with low branched molecular structure using liquid polysilacarbosilane and aluminum acetylacetonate by high-pressure method. *Applied Organometallic Chemistry*, **2018**, 33, e4720	3.1	0
226	Grand Canonical Monte Carlo Simulations on Phase Equilibria of Methane, Carbon Dioxide, and Their Mixture Hydrates. *Journal of Physical Chemistry B*, **2018**, 122, 9724-9737	3.4	5
225	Two-Dimensional Lamellar MoC for Electrochemical Hydrogen Production: Insights into the Origin of Hydrogen Evolution Reaction Activity in Acidic and Alkaline Electrolytes. *ACS Applied Materials & Interfaces*, **2018**, 10, 40500-40508	9.5	28
224	In situ formation of NaTi2(PO4)3 cubes on Ti3C2 MXene for dual-mode sodium storage. *Journal of Materials Chemistry A*, **2018**, 6, 18525-18532	13	36
223	3D hybrid porous Mxene-sponge network and its application in piezoresistive sensor. *Nano Energy*, **2018**, 50, 79-87	17.1	264
222	Preparation of TiC/Ti2AlC coating on carbon fiber and investigation of the oxidation resistance properties. *Journal of the American Ceramic Society*, **2018**, 101, 5269-5280	3.8	14
221	Microstructural evolution of epitaxial Ti3AlC2 film on sapphire under ion irradiation and nanoindentation-induced deformation. *Journal of Nuclear Materials*, **2018**, 509, 181-187	3.3	9
220	High temperature effects on irradiation damage of Ti 2 AlC. *Nuclear Instruments & Methods in Physics Research B*, **2017**, 406, 662-669	1.2	9
219	Microstructural, mechanical and optical properties research of a carbon ion-irradiated Y2SiO5 crystal. *Nuclear Instruments & Methods in Physics Research B*, **2017**, 406, 618-623	1.2	
218	Formation of nano-twinned structure in Ti3AlC2 induced by ion-irradiation. *Acta Materialia*, **2017**, 128, 1-11	8.4	26
217	Ion beam damage assessment and waveguide formation induced by energetic Si-ion irradiation in lanthanum aluminate crystal. *Optical Materials*, **2017**, 64, 391-400	3.3	9

216	A water-soluble near-infrared (NIR) fluorescence activation probe for efficient detection of dissolved carbon dioxide. *Sensors and Actuators B: Chemical*, **2017**, 246, 631-637	8.5	17
215	Preparation of High-Purity V2C MXene and Electrochemical Properties as Li-Ion Batteries. *Journal of the Electrochemical Society*, **2017**, 164, A709-A713	3.9	169
214	Photoluminescent Ti C MXene Quantum Dots for Multicolor Cellular Imaging. *Advanced Materials*, **2017**, 29, 1604847	24	439
213	Structures and Mechanical and Electronic Properties of the Ti2CO2 MXene Incorporated with Neighboring Elements (Sc, V, B and N). *Journal of Electronic Materials*, **2017**, 46, 2460-2466	1.9	42
212	Controllable magnitude and anisotropy of the electrical conductivity of HfCO MXene. *Journal of Physics Condensed Matter*, **2017**, 29, 165701	1.8	22
211	Enhanced thermal properties of poly(vinylidene fluoride) composites with ultrathin nanosheets of MXene. *RSC Advances*, **2017**, 7, 20494-20501	3.7	131
210	Electrochemical corrosion behavior and surface modification of ZrB2 in hydrofluoric acid aqueous solution. *International Journal of Applied Ceramic Technology*, **2017**, 14, 779-784	2	1
209	Microstructure evolution of V2AlC coating on Zr substrate under He irradiation and their mechanical behavior. *Scripta Materialia*, **2017**, 137, 13-17	5.6	13
208	Structures and Mechanical Properties of CH4, SO2, and H2S Hydrates from Density Function Theory Calculations. *Chemistry Letters*, **2017**, 46, 1141-1144	1.7	6
207	Facile preparation of in situ coated Ti3C2Tx/Ni0.5Zn0.5Fe2O4 composites and their electromagnetic performance. *RSC Advances*, **2017**, 7, 24698-24708	3.7	108
206	Densification of high-strength B 4 C□TiB 2 composites fabricated by pulsed electric current sintering of TiC□B mixture. *Scripta Materialia*, **2017**, 135, 15-18	5.6	33
205	Accelerating the crosslinking process of hyperbranched polycarbosilane by UV irradiation. *Journal of the European Ceramic Society*, **2017**, 37, 3263-3270	6	13
204	3D Graphene Oxide Micropatterns Achieved by Roller-Assisted Microcontact Printing Induced Interface Integral Peel and Transfer. *Advanced Materials Interfaces*, **2017**, 4, 1600867	4.6	5
203	Effect of irradiation damage on corrosion of 4H-SiC in FLiNaK molten salt. *Corrosion Science*, **2017**, 125, 194-197	6.8	15
202	Theoretical investigations on helium trapping in the Zr/Ti2AlC interface. *Surface and Coatings Technology*, **2017**, 322, 19-24	4.4	14
201	Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. *ACS Nano*, **2017**, 11, 3841-3850	16.7	229
200	DNA origami-based shape IDs for single-molecule nanomechanical genotyping. *Nature Communications*, **2017**, 8, 14738	17.4	62
199	Ab Initio Studies on the Clathrate Hydrates of Some Nitrogen- and Sulfur-Containing Gases. *Journal of Physical Chemistry A*, **2017**, 121, 2620-2626	2.8	12

198	Thickness-dependent phase evolution and bonding strength of SiC ceramics joints with active Ti interlayer. *Journal of the European Ceramic Society*, **2017**, 37, 1233-1241	6	48
197	Effect of carbide interlayers on the microstructure and properties of graphene-nanoplatelet-reinforced copper matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 708, 311-318	5.3	48
196	Rational control of the interlayer space inside two-dimensional titanium carbides for highly efficient uranium removal and imprisonment. *Chemical Communications*, **2017**, 53, 12084-12087	5.8	132
195	One-step synthesis of polycrystalline V2AlC thin films on amorphous substrates by magnetron co-sputtering. *Vacuum*, **2017**, 146, 106-110	3.7	13
194	Effect of ultraviolet irradiation on the cross-linking process and ceramic yield of liquid hyperbranched polycarbosilane. *Advances in Applied Ceramics*, **2017**, 116, 445-451	2.3	7
193	Densification and mechanical properties of pulsed electric current sintered B4C with in situ synthesized Al3BC obtained by the molten-salt method. *Journal of the European Ceramic Society*, **2017**, 37, 4524-4531	6	21
192	The development of cladding materials for the accident tolerant fuel system from the Materials Genome Initiative. *Scripta Materialia*, **2017**, 141, 99-106	5.6	23
191	Cytocompatibility of TiAlC, TiSiC, and TiAlN: Tests and First-Principles Calculations. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2293-2301	5.5	40
190	Designing flexible 2D transition metal carbides with strain-controllable lithium storage. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E11082-E11091	11.5	36
189	Infiltration of graphite by molten 2LiFBeF2 salt. *Journal of Materials Science*, **2017**, 52, 11346-11359	4.3	13
188	Current rectification induced by V-doped and Sc-doped in Ti2CO2 devices. *Computational Materials Science*, **2017**, 138, 175-182	3.2	10
187	Self-Diffusion Driven Ultrafast Detection of ppm-Level Nitroaromatic Pollutants in Aqueous Media Using a Hydrophilic Fluorescent Paper Sensor. *ACS Applied Materials & Interfaces*, **2017**, 9, 23884-23893	9.5	52
186	Theoretical investigation on radiation tolerance of ${{boldsymbol{M}}}_{{boldsymbol{n}}+1}{{boldsymbol{AX}}}_{{boldsymbol{n}}}$ phases. *Chinese Physics B*, **2017**, 26, 060703	1.2	1
185	Effect of electric current on diffusion of aluminum in Ti3AlC2 into zirconium alloy. *Journal Wuhan University of Technology, Materials Science Edition*, **2017**, 32, 645-649	1	2
184	Influence of helium atoms on the shear behavior of the fiber/matrix interphase of SiC/SiC composite. *Journal of Nuclear Materials*, **2016**, 479, 504-514	3.3	5
183	Electronic and Transport Properties of Ti2CO2 MXene Nanoribbons. *Journal of Physical Chemistry C*, **2016**, 120, 17143-17152	3.8	35
182	Reaction-Driven Self-Assembled Micellar Nanoprobes for Ratiometric Fluorescence Detection of CS2 with High Selectivity and Sensitivity. *ACS Applied Materials & Interfaces*, **2016**, 8, 20100-9	9.5	10
181	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. *ACS Applied Materials & Interfaces*, **2016**, 8, 16396-403	9.5	138

180	Structural Transitions Induced by Ion Irradiation in V2AlC and Cr2AlC. *Journal of the American Ceramic Society*, **2016**, 99, 1769-1777	3.8	27
179	Aggregation-induced emission of tetraphenylethylene-modified polyethyleneimine for highly selective CO2 detection. *Sensors and Actuators B: Chemical*, **2016**, 228, 551-556	8.5	26
178	Crystal structures and mechanical properties of M (Mg, Sr, Ba, La) x Ca 1− B 6 solid solution: A first principles study. *Ceramics International*, **2016**, 42, 6632-6639	5.1	9
177	Negative differential resistance and rectifying performance induced by doped graphene nanoribbons p n device. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2016**, 380, 1049-1055	2.3	28
176	First-principles investigations on the electronic structures of U3Si2. *Journal of Nuclear Materials*, **2016**, 469, 194-199	3.3	46
175	High adsorption capacity of heavy metals on two-dimensional MXenes: an ab initio study with molecular dynamics simulation. *Physical Chemistry Chemical Physics*, **2016**, 18, 228-33	3.6	75
174	Effect of sintering temperature on the structural and magnetic properties of MgFe2O4 ceramics prepared by spark plasma sintering. *Ceramics International*, **2016**, 42, 4221-4227	5.1	23
173	Ash Fusion Properties from Molecular Dynamics Simulation: Role of the Ratio of Silicon and Aluminum. *Energy & Fuels*, **2016**, 30, 2407-2413	4.1	18
172	Multiple-Armed Tetrahedral DNA Nanostructures for Tumor-Targeting, Dual-Modality in Vivo Imaging. *ACS Applied Materials & Interfaces*, **2016**, 8, 4378-84	9.5	110
171	Influence of passivation pretreatment in common acid and alkali on oxidation behaviour of Ti3SiC2 at 500 C. *Advances in Applied Ceramics*, **2016**, 115, 60-64	2.3	2
170	Promising electron mobility and high thermal conductivity in Sc2CT2 (T = F, OH) MXenes. *Nanoscale*, **2016**, 8, 6110-7	7.7	141
169	DNA orientation-specific adhesion and patterning of living mammalian cells on self-assembled DNA monolayers. *Chemical Science*, **2016**, 7, 2722-2727	9.4	26
168	Microstructure evolution of V AlC coatings synthesized from a V 2 AlC compound target after vacuum annealing treatment. *Journal of Alloys and Compounds*, **2016**, 661, 476-482	5.7	19
167	Effects of graphene content on the microstructure and properties of copper matrix composites. *Carbon*, **2016**, 96, 836-842	10.4	280
166	Activity modulation and allosteric control of a scaffolded DNAzyme using a dynamic DNA nanostructure. *Chemical Science*, **2016**, 7, 1200-1204	9.4	49
165	Role of Fluxes in the Synthesis and Luminescence Properties of Ba$lt;inf$gt;3$lt;/inf$gt;Si$lt;inf$gt;6$lt;/inf$gt;O$lt;inf$gt;12$lt;/inf$gt;N$lt;inf$gt;2$lt;/inf$gt;:Eu$lt;sup$gt;2+$lt;/sup Oxynitride Phosphors by Microwave Sintering. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2016**, 31, 652		
164	Intrinsic Structural, Electrical, Thermal, and Mechanical Properties of the Promising Conductor Mo2C MXene. *Journal of Physical Chemistry C*, **2016**, 120, 15082-15088	3.8	98
163	Cathodoluminescence and photoluminescence properties of Eu-doped Ba3Si6O12N2 green phosphors by microwave sintering **2016**, 221-226		

162	A Two-Dimensional Zirconium Carbide by Selective Etching of Al3C3 from Nanolaminated Zr3Al3C5. *Angewandte Chemie - International Edition*, **2016**, 55, 5008-13	16.4	247
161	A Two-Dimensional Zirconium Carbide by Selective Etching of Al3C3 from Nanolaminated Zr3Al3C5. *Angewandte Chemie*, **2016**, 128, 5092-5097	3.6	55
160	The thermal and electrical properties of the promising semiconductor MXene Hf2CO2. *Scientific Reports*, **2016**, 6, 27971	4.9	115
159	Saturation of ion irradiation effects in MAX phase Cr2AlC. *Acta Materialia*, **2016**, 110, 1-7	8.4	34
158	Ti3AlC2 coatings deposited by liquid plasma spraying. *Surface and Coatings Technology*, **2016**, 299, 123-128	2.8	16
157	Structural, electronic and mechanical properties of (NbxTi1−x)2SC and (NbxZr1−x)2SC (0?x?1) from first-principles investigations. *Computational and Theoretical Chemistry*, **2016**, 1090, 58-66	2	9
156	Joining of carbon fiber reinforced carbon composites with Ti3SiC2 tape film by electric field assisted sintering technique. *Carbon*, **2016**, 102, 106-115	10.4	29
155	All-solid-state flexible microsupercapacitor based on two-dimensional titanium carbide. *Chinese Chemical Letters*, **2016**, 27, 1586-1591	8.1	48
154	Ion-Mediated Polymerase Chain Reactions Performed with an Electronically Driven Microfluidic Device. *Angewandte Chemie*, **2016**, 128, 12638-12642	3.6	6
153	Ion-Mediated Polymerase Chain Reactions Performed with an Electronically Driven Microfluidic Device. *Angewandte Chemie - International Edition*, **2016**, 55, 12450-4	16.4	11
152	A first-principles study on the defective properties of MAX phase Cr2AlC: the magnetic ordering and strong correlation effect. *RSC Advances*, **2016**, 6, 84262-84268	3.7	14
151	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. *Advanced Energy Materials*, **2016**, 6, 1600969	21.8	439
150	CO2 and temperature dual responsive "Smart" MXene phases. *Chemical Communications*, **2015**, 51, 314-7	5.8	174
149	Electronic structures and mechanical properties of Al(111)/ZrB2(0001) heterojunctions from first-principles calculation. *Molecular Physics*, **2015**, 113, 1794-1801	1.7	18
148	Fabrication, characterization, and magnetic behavior of porous ZnFe2O4 hollow microspheres. *International Nano Letters*, **2015**, 5, 53-59	5.7	10
147	Gold-Nanoparticle-Mediated Jigsaw-Puzzle-like Assembly of Supersized Plasmonic DNA Origami. *Angewandte Chemie*, **2015**, 127, 3009-3012	3.6	15
146	A SERS study of oxidation of glutathione under plasma irradiation. *RSC Advances*, **2015**, 5, 57847-57852	3.7	13
145	Irradiation-induced structural transitions in Ti2AlC. *Acta Materialia*, **2015**, 98, 197-205	8.4	42

144	The scaling behavior and mechanism of Ti 2 AlC MAX phase coatings in air and pure water vapor. *Surface and Coatings Technology*, **2015**, 272, 380-386	4.4	12
143	Irradiation resistance of MAX phases Ti3SiC2 and Ti3AlC2: Characterization and comparison. *Journal of Nuclear Materials*, **2015**, 465, 640-647	3.3	37
142	Spark plasma sintering and microwave electromagnetic properties of MnFe O4 ceramics. *Journal of Magnetism and Magnetic Materials*, **2015**, 395, 185-189	2.8	16
141	The evolution of mechanical and structural properties at the fiber/matrix interphase of SiC/SiC composites. *Computational Materials Science*, **2015**, 104, 84-91	3.2	5
140	Comparative study of conventional and microwave sintered mullite fibres: structural study. *Advances in Applied Ceramics*, **2015**, 114, 139-143	2.3	2
139	Nanodiamonds act as Trojan horse for intracellular delivery of metal ions to trigger cytotoxicity. *Particle and Fibre Toxicology*, **2015**, 12, 2	8.4	33
138	Clicking DNA to gold nanoparticles: poly-adenine-mediated formation of monovalent DNA-gold nanoparticle conjugates with nearly quantitative yield. *NPG Asia Materials*, **2015**, 7, e159-e159	10.3	91
137	A facile hydrothermal synthesis, characterization and magnetic properties of mesoporous CoFe2O4 nanospheres. *Journal of Magnetism and Magnetic Materials*, **2015**, 388, 40-44	2.8	48
136	New insight into the helium-induced damage in MAX phase Ti3AlC2 by first-principles studies. *Journal of Chemical Physics*, **2015**, 143, 114707	3.9	22
135	Fast joining SiC ceramics with Ti3SiC2 tape film by electric field-assisted sintering technology. *Journal of Nuclear Materials*, **2015**, 466, 322-327	3.3	52
134	Role of the surface effect on the structural, electronic and mechanical properties of the carbide MXenes. *Europhysics Letters*, **2015**, 111, 26007	1.6	161
133	Uranyl Carboxyphosphonates Derived from Hydrothermal in Situ Ligand Reaction: Syntheses, Structures, and Computational Investigations. *Inorganic Chemistry*, **2015**, 54, 8617-24	5.1	24
132	Exploring the potential of exfoliated ternary ultrathin Ti4AlN3 nanosheets for fabricating hybrid patterned polymer brushes. *RSC Advances*, **2015**, 5, 70339-70344	3.7	21
131	Transportation and fate of gold nanoparticles in oilseed rape. *RSC Advances*, **2015**, 5, 73827-73833	3.7	2
130	Fast synthesis of B4C□TiB2 composite powders by pulsed electric current heating TiC□B mixture. *Journal of the European Ceramic Society*, **2015**, 35, 1107-1112	6	23
129	Binding-induced collapse of DNA nano-assembly for naked-eye detection of ATP with plasmonic gold nanoparticles. *Biosensors and Bioelectronics*, **2015**, 65, 171-5	11.8	25
128	New insight into the residual inactivation of Microcystis aeruginosa by dielectric barrier discharge. *Scientific Reports*, **2015**, 5, 13683	4.9	15
127	Fluorescent In Situ Targeting Probes for Rapid Imaging of Ovarian-Cancer-Specific □Glutamyltranspeptidase. *Angewandte Chemie - International Edition*, **2015**, 54, 7349-53	16.4	155

126	Fluorescent In Situ Targeting Probes for Rapid Imaging of Ovarian-Cancer-Specific □Glutamyltranspeptidase. *Angewandte Chemie*, **2015**, 127, 7457-7461	3.6	23
125	Truly Fluorescent Excitation-Dependent Carbon Dots and Their Applications in Multicolor Cellular Imaging and Multidimensional Sensing. *Advanced Materials*, **2015**, 27, 7782-7	24	455
124	Irradiation Effects in Ni□7Mo□7Cr Alloy Bombarded with MeV Au Ions. *Acta Metallurgica Sinica (English Letters)*, **2015**, 28, 903-908	2.5	8
123	Low temperature hydrothermal synthesis, structural investigation and functional properties of CoxMn1□Fe2O4 . *Superlattices and Microstructures*, **2015**, 81, 233-242	2.8	23
122	Carbon nanofiber bridged two-dimensional titanium carbide as a superior anode for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 14096-14100	13	124
121	Enhanced Rate Capability of Polymer-Derived SiCN Anode Material for Electrochemical Storage of Lithium with 3-D Carbon Nanotube Network Dispersed in Nanoscale. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 3067-75	1.3	2
120	Fabrication of Ti2AlN ceramics with orientation growth behavior by the microwave sintering method. *Journal of the European Ceramic Society*, **2015**, 35, 1385-1391	6	33
119	Analysis of telomerase activity based on a spired DNA tetrahedron TS primer. *Biosensors and Bioelectronics*, **2015**, 67, 364-9	11.8	38
118	Synthesis of Ti2SC Phase Using Iron Disulfide or Iron Sulfide Post-Treated with Acid. *Journal of the American Ceramic Society*, **2015**, 98, 1074-1079	3.8	8
117	The Electronic Transport Properties in Boron-Doped Armchair Graphene Nanoribbon Junctions. *Nanoscience and Nanotechnology Letters*, **2015**, 7, 630-636	0.8	4
116	Application of Carbon Nanomaterials in Gene Delivery for Endogenous RNA Interference In Vitro and In Vivo. *Current Pharmaceutical Design*, **2015**, 21, 3191-8	3.3	7
115	Microwave assisted sintering of barium-silicon oxynitride green phosphors for white LED applications **2015**, 2589-2593		
114	Laundering durable antibacterial cotton fabrics grafted with pomegranate-shaped polymer wrapped in silver nanoparticle aggregations. *Scientific Reports*, **2014**, 4, 5920	4.9	55
113	Bioactive calcium sulfate/magnesium phosphate cement for bone substitute applications. *Materials Science and Engineering C*, **2014**, 35, 70-6	8.3	42
112	Synchrotron-based X-ray microscopic studies for bioeffects of nanomaterials. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2014**, 10, 515-24	6	30
111	Synthesis of High-Purity Ti3SiC2 by Microwave Sintering. *International Journal of Applied Ceramic Technology*, **2014**, 11, 911-918	2	29
110	One-pot synthesis of polyaniline doped with transition metal ions using H2O2 as oxidant. *Polymers for Advanced Technologies*, **2014**, 25, 1391-1395	3.2	6
109	Planar and Channel Waveguide Structures in CdS Crystals at 633 and 1539 nm. *Journal of Lightwave Technology*, **2014**, 32, 2556-2559	4	1

108	Transparent alumina fabricated by SPS sintering with AlF 3 doping. *Scripta Materialia*, **2014**, 92, 31-34	5.6	2
107	Engineering scaffolds integrated with calcium sulfate and oyster shell for enhanced bone tissue regeneration. *ACS Applied Materials & Interfaces*, **2014**, 6, 12177-88	9.5	39
106	Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10456-61	11.5	28
105	Synthesis of B4C□TiB2 composite powders by the carbide boronizing process. *Ceramics International*, **2014**, 40, 15341-15344	5.1	14
104	Microwave sintering of nanopowder ZnNb2O6: Densification, microstructure and microwave dielectric properties. *Physica B: Condensed Matter*, **2014**, 454, 35-41	2.8	11
103	Irradiation resistance properties studies on helium ions irradiated MAX phase Ti3AlC2. *Nuclear Instruments & Methods in Physics Research B*, **2014**, 326, 332-336	1.2	43
102	Nanoprobes for super-resolution fluorescence imaging at the nanoscale. *Science China Chemistry*, **2014**, 57, 100-106	7.9	24
101	Ultrasensitive electrochemical DNA sensor based on the target induced structural switching and surface-initiated enzymatic polymerization. *Biosensors and Bioelectronics*, **2014**, 55, 231-6	11.8	26
100	The structural transitions of Ti3AlC2 induced by ion irradiation. *Acta Materialia*, **2014**, 65, 351-359	8.4	58
99	Visible Light Driven Photoelectrochemical Water Oxidation by Zn- and Ti-Doped Hematite Nanostructures. *ACS Catalysis*, **2014**, 4, 2006-2015	13.1	150
98	Ferrite multiphase/carbon nanotube composites sintered by spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2014**, 122, 768-771	1	3
97	Ferrite multiphase/carbon nanotube composites sintered by microwave sintering and spark plasma sintering. *Journal of the Ceramic Society of Japan*, **2014**, 122, 881-885	1	2
96	Transition in micro/nano-scale mechanical properties of ZrO2/multi-wall carbon nanotube composites. *Journal of the Ceramic Society of Japan*, **2014**, 122, 1028-1031	1	6
95	Influence of polyethylene glycol coating on biodistribution and toxicity of nanoscale graphene oxide in mice after intravenous injection. *International Journal of Nanomedicine*, **2014**, 9, 4697-707	7.3	74
94	Encapsulation kinetics and dynamics of carbon monoxide in clathrate hydrate. *Nature Communications*, **2014**, 5, 4128	17.4	49
93	Rapid Bonding of Ti3SiC2 and Ti3AlC2 by Pulsed Electrical Current Heating. *Journal of the American Ceramic Society*, **2014**, 97, 3721-3724	3.8	10
92	Microwave sintering, characterization and magnetic properties of double perovskite La2CoMnO6 nanoparticles. *Materials Letters*, **2014**, 132, 55-58	3.3	17
91	Synthesis of Hexagonal Columnar ZrB2 Powders Through Dissolution-Recrystallization Approach by Microwave Heating Method. *Journal of the American Ceramic Society*, **2014**, 97, 3037-3040	3.8	14

90	Low-Temperature Synthesis of Nanocrystalline NbB2 Powders by Borothermal Reduction in Molten Salt. *Journal of the American Ceramic Society*, **2014**, 97, 3384-3387	3.8	28
89	Single-Particle Tracking and Modulation of Cell Entry Pathways of a Tetrahedral DNA Nanostructure in Live Cells. *Angewandte Chemie*, **2014**, 126, 7879-7884	3.6	31
88	Titelbild: Single-Particle Tracking and Modulation of Cell Entry Pathways of a Tetrahedral DNA Nanostructure in Live Cells (Angew. Chem. 30/2014). *Angewandte Chemie*, **2014**, 126, 7809-7809	3.6	1
87	Ab initio study of irradiation tolerance for different Mn+1AXn phases: Ti3SiC2 and Ti3AlC2. *Journal of Applied Physics*, **2014**, 115, 023503	2.5	63
86	Microwave Sintering of Ti3Si(Al)C2 Ceramic. *Journal of the American Ceramic Society*, **2014**, 97, 2731-2735	3.8	14
85	Pulse Electric Current‐Aided Reactive Sintering of High-Purity Zr3Al3C5. *Journal of the American Ceramic Society*, **2014**, 97, 1296-1302	3.8	8
84	First-principles investigation of the intrinsic defects in Ti3SiC2. *Journal of Physics and Chemistry of Solids*, **2014**, 75, 384-390	3.9	12
83	Morphology Control and Self-Setting Modification of α‐Calcium Sulfate Hemihydrate Bone Cement by Addition of Ethanol. *International Journal of Applied Ceramic Technology*, **2013**, 10, E219-E225	2	14
82	Spark plasma sintering of damage tolerant and machinable YAM ceramics. *Journal of Advanced Ceramics*, **2013**, 2, 193-200	10.7	3
81	Biodistribution and pulmonary toxicity of intratracheally instilled graphene oxide in mice. *NPG Asia Materials*, **2013**, 5, e44-e44	10.3	102
80	Facile synthesis of Ca-α-SiAlON:Eu2+ phosphor by the microwave sintering method and its photoluminescence properties. *Science Bulletin*, **2013**, 58, 708-712		10
79	A graphene oxide-based fluorescent biosensor for the analysis of peptide-receptor interactions and imaging in somatostatin receptor subtype 2 overexpressed tumor cells. *Analytical Chemistry*, **2013**, 85, 7732-7	7.8	63
78	Phase transformation behavior of ZrO2 by addition of carbon nanotubes consolidated by spark plasma sintering. *Scripta Materialia*, **2013**, 69, 736-739	5.6	14
77	Phase-dependent photoluminescence behavior of Cr-doped alumina phosphors. *Optical Materials*, **2013**, 35, 1268-1272	3.3	15
76	Label-free selective detection of coralyne due to aptamer–coralyne interaction using DNA modified SiO2@Au core–shell nanoparticles as an effective SERS substrate. *Analytical Methods*, **2013**, 5, 3927	3.2	27
75	Microwave-activated formation of lattice defects in alumina polycrystals consolidated by spark plasma sintering. *Scripta Materialia*, **2013**, 69, 728-731	5.6	2
74	Gold nanoparticle-assisted primer walking for closing the human chromosomal gap. *Analytical Methods*, **2013**, 5, 4746	3.2	
73	Imaging cellular uptake and intracellular distribution of TiO2 nanoparticles. *Analytical Methods*, **2013**, 5, 6611	3.2	17

72	New phases discovery in MAX family. *International Journal of Refractory Metals and Hard Materials*, **2013**, 36, 300-312	4.1	81
71	Microwave sintering carbon nanotube/Ni0.5Zn0.5Fe2O4 composites and their electromagnetic performance. *Journal of the European Ceramic Society*, **2013**, 33, 2119-2126	6	40
70	Ultrafast fabrication of solid phosphor based white light emitting diodes: From powder synthesis to devices. *Applied Physics Letters*, **2013**, 103, 121908	3.4	6
69	Photoluminescence properties of Ca SiAlON:Ce3+ phosphors as function of composition and microstructure. *Ceramics International*, **2013**, 39, 8319-8326	5.1	7
68	Effect of pH and succinic acid on the morphology of calcium sulfate hemihydrate synthesized by a salt solution method. *Journal of Crystal Growth*, **2013**, 374, 31-36	1.6	44
67	Preparation of nanocrystalline-coated carbon nanotube/Ni0.5Zn0.5Fe2O4 composite with excellent electromagnetic property as microwave absorber. *Journal Physics D: Applied Physics*, **2013**, 46, 145002	3	22
66	Preparation of calcium sulfate dihydrate and calcium sulfate hemihydrate with controllable crystal morphology by using ethanol additive. *Ceramics International*, **2013**, 39, 5495-5502	5.1	36
65	Scaffolded biosensors with designed DNA nanostructures. *NPG Asia Materials*, **2013**, 5, e51-e51	10.3	94
64	Superplastic Behavior of Alumina Composites Mediated by Carbon Nanotubes. *Nano-Micro Letters*, **2013**, 5, 174-181	19.5	3
63	Effects of He irradiation on Ti3AlC2: Damage evolution and behavior of He bubbles. *Journal of Nuclear Materials*, **2013**, 440, 606-611	3.3	57
62	Preparation and Magnetic Property of Carbon Nanotube/NiZnCo Ferrite Composite. *Advanced Materials Research*, **2013**, 833, 286-290	0.5	
61	Interfacial Reactions between Polymer Derived SiC Fiber and Ti3Si(Al)C2. *Key Engineering Materials*, **2013**, 544, 238-244	0.4	5
60	Assessment of Damage of Glutathione by Glow Discharge Plasma at the Gas olution Interface through Raman Spectroscopy. *Plasma Processes and Polymers*, **2013**, 10, 181-188	3.4	25
59	Inactivation and Heme Degradation of Horseradish Peroxidase Induced by Discharge Plasma. *Plasma Processes and Polymers*, **2013**, 10, 731-739	3.4	40
58	Microwave Assisted Sintering of Thermally Stable BaMgAl10O17:Eu2+Phosphors. *ECS Journal of Solid State Science and Technology*, **2013**, 2, R196-R200	2	10
57	Reconfigurable Three-Dimensional DNA Nanostructures for the Construction of Intracellular Logic Sensors. *Angewandte Chemie*, **2012**, 124, 9154-9158	3.6	83
56	Innenr ktitelbild: Reconfigurable Three-Dimensional DNA Nanostructures for the Construction of Intracellular Logic Sensors (Angew. Chem. 36/2012). *Angewandte Chemie*, **2012**, 124, 9321-9321	3.6	0
55	High-conductivity graphene nanocomposite via facile, covalent linkage of gold nanoparticles to graphene oxide. *Science Bulletin*, **2012**, 57, 3086-3092		8

54	Study of phase transformation behaviour of alumina through precipitation method. *Journal Physics D: Applied Physics*, **2012**, 45, 215302	3	23
53	Radiation induced reduction: an effective and clean route to synthesize functionalized graphene. *Journal of Materials Chemistry*, **2012**, 22, 7775		149
52	Polyvalent Immunostimulatory Nanoagents with Self-Assembled CpG Oligonucleotide-Conjugated Gold Nanoparticles. *Angewandte Chemie*, **2012**, 124, 1228-1232	3.6	17
51	Atomic packing and short to medium range order in a U-Fe metallic glass. *Applied Physics Letters*, **2012**, 101, 021909	3.4	2
50	Synthesis of Plate-Like ZrB2 Grains. *Journal of the American Ceramic Society*, **2012**, 95, 85-88	3.8	27
49	Tailoring Plate-Like Grained ZrB2 Ceramic via a Strong Magnetic Field Alignment Method Followed by Spark Plasma Sintering. *Key Engineering Materials*, **2012**, 512-515, 702-705	0.4	
48	Effects of Sm3+ Doping on the Photoluminescence Properties of Ca9Eu1-xSmx(VO4)7 Red-Emitting Phosphors. *Key Engineering Materials*, **2012**, 512-515, 1488-1493	0.4	2
47	Graphene-templated formation of two-dimensional lepidocrocite nanostructures for high-efficiency catalytic degradation of phenols. *Energy and Environmental Science*, **2011**, 4, 2035	35.4	74
46	Effects of polymer matrices to the formation of silicon carbide (SiC) nanoporous fibers and nanowires under carbothermal reduction. *Journal of Materials Chemistry*, **2011**, 21, 1005-1012		41
45	Microwave absorption properties of carbon nanotubes dispersed in alumina ceramic. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 659, 49-54	1.2	11
44	Water-Dispersed Near-Infrared-Emitting Quantum Dots of Ultrasmall Sizes for In Vitro and In Vivo Imaging. *Angewandte Chemie*, **2011**, 123, 5813-5816	3.6	16
43	Single Gold Nanoparticles as Real-Time Optical Probes for the Detection of NADH-Dependent Intracellular Metabolic Enzymatic Pathways. *Angewandte Chemie*, **2011**, 123, 6921-6924	3.6	38
42	Catalytic Gold Nanoparticles for Nanoplasmonic Detection of DNA Hybridization. *Angewandte Chemie*, **2011**, 123, 12200-12204	3.6	48
41	Synthesis of Nickel Nanoparticles Supported on Nanoporous Silicon Oxycarbide (SiCO) Sheath□ore Fibers. *Journal of Physical Chemistry C*, **2010**, 114, 11776-11782	3.8	12
40	SiCO-doped carbon fibers with unique dual superhydrophilicity/superoleophilicity and ductile and capacitance properties. *ACS Applied Materials & Interfaces*, **2010**, 2, 3738-44	9.5	13
39	High-current-induced damage on carbon nanotubes: The case during spark plasma sintering. *Scripta Materialia*, **2010**, 63, 1181-1184	5.6	30
38	pH sensor based on boron nitride nanotubes. *Nanotechnology*, **2009**, 20, 415501	3.4	35
37	Study of electronic structure and dynamics of interacting free radicals influenced by water. *Journal of Chemical Physics*, **2009**, 130, 124312	3.9	14

36	Functionalization of carbon nanotubes with a pH-responsive molecule to produce a pH sensor. *Nanotechnology*, **2009**, 20, 325501	3.4	18
35	Design of a carbon nanotube/magnetic nanoparticle-based peroxidase-like nanocomplex and its application for highly efficient catalytic oxidation of phenols. *Nano Research*, **2009**, 2, 617-623	10	129
34	Highly Dispersive Carbon Nanotube/Alumina Composites and their Electrospun Nanofibers. *Journal of the American Ceramic Society*, **2009**, 92, 2583-2589	3.8	5
33	Macroporous silicon oxycarbide fibers with luffa-like superhydrophobic shells. *Journal of the American Chemical Society*, **2009**, 131, 10346-7	16.4	49
32	Role of Dimethyl Sulfoxide in the Hydrolytic Peeling of Boron Nitride Nanotubes. *Journal of Physical Chemistry C*, **2009**, 113, 15565-15568	3.8	8
31	Boron nitride nanotubes: functionalization and composites. *Journal of Materials Chemistry*, **2008**, 18, 3900		199
30	Functionalized carbon nanotubes for pH sensors based on SERS. *Journal of Materials Chemistry*, **2008**, 18, 4759		19
29	Interaction between OH radical and the water interface. *Journal of Physical Chemistry A*, **2008**, 112, 4826-35	2.8	22
28	Gold nanoparticlebased optical probes for target-responsive DNA structures **2008**, 41, 37-41		58
27	Sensitivity Study on Modeling an Internal Airlift Loop Reactor Using a Steady 2D Two-Fluid Model. *Chemical Engineering and Technology*, **2008**, 31, 1790-1798	2	23
26	Enzyme-Based Multi-Component Optical Nanoprobes for Sequence- Specific Detection of DNA Hybridization. *Advanced Materials*, **2008**, 20, 497-500	24	118
25	Donor–Acceptor Nanoensembles Based on Boron Nitride Nanotubes. *Advanced Materials*, **2007**, 19, 934-938	24	22
24	Photoinduced charge injection and bandgap-engineering of high-specific-surface-area BN nanotubes using a zinc phthalocyanine monolayer. *Small*, **2007**, 3, 1330-5	11	8
23	Synthesis and Photoluminescence of Eu2+-Doped Silicon Nitride Nanowires Coated with Thin BN Film. *Journal of the American Ceramic Society*, **2007**, 90, 070922001308004-???	3.8	3
22	Enhancing superplasticity of engineering ceramics by introducing BN nanotubes. *Nanotechnology*, **2007**, 18, 485706	3.4	90
21	Systematic investigation of the formation of 1D alpha-Si(3)N(4) nanostructures by using a thermal-decomposition/nitridation process. *Chemistry - A European Journal*, **2006**, 12, 2987-93	4.8	43
20	Chemical peeling and branching of boron nitride nanotubes in dimethyl sulfoxide. *Angewandte Chemie - International Edition*, **2006**, 45, 2044-7	16.4	28
19	Chemical Peeling and Branching of Boron Nitride Nanotubes in Dimethyl Sulfoxide. *Angewandte Chemie*, **2006**, 118, 2098-2101	3.6	7

18	Novel Synthesis and Functionalization of Boron Nitride Nanotubes. *Microscopy and Microanalysis*, **2006**, 12, 496-497	0.5	
17	Sintering and thermal properties of multiwalled carbon nanotubeBaTiO3 composites. *Journal of Materials Chemistry*, **2005**, 15, 1995		52
16	Preparation and Photoluminescence of Partially Filled ZnO Microtubes Using Block Copolymers. *Journal of the American Ceramic Society*, **2005**, 88, 1403-1406	3.8	1
15	Effect of Adding Carbon Nanotubes on Microstructure, Phase Transformation, and Mechanical Property of BaTiO3 Ceramics. *Journal of the American Ceramic Society*, **2005**, 88, 3515-3518	3.8	21
14	Multiwalled carbon nanotube/BaTiO3 nanocomposites: Electrical and rectification properties. *Applied Physics Letters*, **2005**, 86, 123104	3.4	20
13	Synthesis and characterization of CdS/multiwalled carbon nanotube heterojunctions. *Nanotechnology*, **2004**, 15, 1855-1860	3.4	61
12	Synthesis and Characterization of Hexapod-Shaped Tetragonal-Phase Barium Titanate Single Crystals. *Journal of the American Ceramic Society*, **2004**, 87, 1350-1353	3.8	1
11	Manufacture and electrical properties of multiwalled carbon nanotube/BaTiO3 nanocomposite ceramics. *Journal of Materials Chemistry*, **2004**, 14, 2536		46
10	Simple Route for Synthesis of PbS Dendritic Nanostructured Materials. *Chemistry Letters*, **2004**, 33, 1338-1339	1.7	12
9	Synthesis and Characterization of Strontium Carbonate Nanowires withaAxis Orientation and Dendritic Nanocrystals. *Chemistry Letters*, **2004**, 33, 290-291	1.7	15
8	A Simple Route for the Synthesis of Rutile TiO2Nanorods. *Chemistry Letters*, **2003**, 32, 638-639	1.7	55
7	Immobilization of rutile TiO2 on multiwalled carbon nanotubes. *Journal of Materials Chemistry*, **2003**, 13, 1517		56
6	Effects of Temperature on Properties of Ormosils. *Materials Research Society Symposia Proceedings*, **1996**, 435, 229		4
5	Degradable Ti3C2Tx MXene Nanosheets Containing a Lignin Polyurethane Photothermal Foam (LPUF) for Rapid Crude Oil Cleanup. *ACS Applied Nano Materials*,	5.6	4
4	In-situ growth of MAX phase coatings on carbonised wood and their terahertz shielding properties. *Journal of Advanced Ceramics*,1	10.7	2
3	A statistical analysis of pores and microcracks in nuclear graphite. *Surface and Interface Analysis*,	1.5	1
2	Construction of Functional DNA Nanostructures for Theranostic Applications93-130		2
1	Molten Salt-Shielded Synthesis (MS 3) of MXenes in Air. *Energy and Environmental Materials*,	13	1