Guang Yang

List of Publications by Year
in descending order

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85 papers	2,248 citations	218381 26 h-index	253896 43 g-index
85 all docs	85 docs citations	85 times ranked	2181 citing authors

#	Article	IF	Citations
1	Correlation between structure and physical properties of chalcogenide glasses in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>As</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> Physical Review B, 2010, 82, .	1.1	117
2	A New Benzoxazine Containing Benzoxazole-Functionalized Polyhedral Oligomeric Silsesquioxane and the Corresponding Polybenzoxazine Nanocomposites. Macromolecules, 2013, 46, 2696-2704.	2.2	115
3	Seven new dolphin mitochondrial genomes and a time-calibrated phylogeny of whales. BMC Evolutionary Biology, 2009, 9, 20.	3.2	106
4	Baiji genomes reveal low genetic variability and new insights into secondary aquatic adaptations. Nature Communications, 2013, 4, 2708.	5.8	93
5	Phylogenomic analyses and improved resolution of Cetartiodactyla. Molecular Phylogenetics and Evolution, 2011, 61, 255-264.	1.2	84
6	Thermal Poling of Optical Glasses: Mechanisms and Secondâ€Order Optical Properties. International Journal of Applied Glass Science, 2012, 3, 309-320.	1.0	72
7	Preparation and properties of novel low dielectric constant benzoxazoleâ€based polybenzoxazine. Journal of Polymer Science Part A, 2012, 50, 5115-5123.	2.5	66
8	Adaptive evolution and functional constraint at TLR4 during the secondary aquatic adaptation and diversification of cetaceans. BMC Evolutionary Biology, 2012, 12, 39.	3.2	65
9	A photo-stable chalcogenide glass. Optics Express, 2008, 16, 10565.	1.7	64
10	Fragile-strong behavior in the As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>glass forming system in relation to structural dimensionality. Physical Review B, 2012, 85, .	1.1	59
11	Physical properties of the GexSe1â^’x glasses in the 0<x<0.42 range in correlation with their structure. Journal of Non-Crystalline Solids, 2013, 377, 54-59.	1.5	58
12	Recent progress in thermal/environmental barrier coatings and their corrosion resistance. Rare Metals, 2020, 39, 498-512.	3.6	58
13	Theoretical investigation of anisotropic mechanical and thermal properties of ABO₃ (A=Sr, Ba; B=Ti, Zr, Hf) perovskites. Journal of the American Ceramic Society, 2018, 101, 3527-3540.	1.9	57
14	Characterization of hairless (Hr) and FGF5genes provides insights into the molecular basis of hair loss in cetaceans. BMC Evolutionary Biology, 2013, 13, 34.	3.2	51
15	Synthesis and copolymerization of benzoxazines with low-dielectric constants and high thermal stability. RSC Advances, 2013, 3, 5261.	1.7	48
16	The onset temperature (Tg) of As Se1 glasses transition prediction: A comparison of topological and regression analysis methods. Computational Materials Science, 2017, 140, 315-321.	1.4	46
17	Facile synthesis, formation mechanism and thermochromic properties of W-doped VO₂(M) nanoparticles for smart window applications. Journal of Materials Chemistry C, 2020, 8, 13396-13404.	2.7	44
18	The loss of taste genes in cetaceans. BMC Evolutionary Biology, 2014, 14, 218.	3.2	43

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19	Predicting the onset temperature (Tg) of Ge Se1â^' glass transition: a feature selection based two-stage support vector regression method. Science Bulletin, 2019, 64, 1195-1203.	4.3	41
20	Effects of Melting Temperature on the Broadband Infrared Luminescence of Biâ€Doped and Bi/Dy Coâ€Doped Chalcohalide Glasses. Journal of the American Ceramic Society, 2007, 90, 3670-3672.	1.9	37
21	Formation and Properties of the Novel GeSe₂â€“In₂Se₃â€“CsI Chalcohalide Glasses. Journal of the American Ceramic Society, 2008, 91, 902-905.	1.9	33
22	The position of tree shrews in the mammalian tree: Comparing multiâ€gene analyses with phylogenomic results leaves monophyly of Euarchonta doubtful. Integrative Zoology, 2015, 10, 186-198.	1.3	33
23	Molecular phylogenetics of â€˜river dolphinsâ€™ and the baiji mitochondrial genome. Molecular Phylogenetics and Evolution, 2005, 37, 743-750.	1.2	31
24	Effect of cobalt content on high-temperature tribological properties of TiC-Co coatings. Ceramics International, 2018, 44, 14186-14194.	2.3	30
25	Genomic organization and adaptive evolution of IGHC genes in marine mammals. Molecular Immunology, 2018, 99, 75-81.	1.0	29
26	In-situ measurement of reversible photodarkening in ion-conducting chalcohalide glass. Optics Express, 2008, 16, 1466.	1.7	28
27	Role of rigidity and temperature in the kinetics of photodarkening in Ge_xAs_(45-x)Se_55 thin films. Optics Express, 2011, 19, 13158.	1.7	28
28	Positive selection at the ASPM gene coincides with brain size enlargements in cetaceans. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4433-4440.	1.2	28
29	Micro-crystallization of the infrared transmitting chalcogenide glass in GeSe2â€“As2Se3â€“PbSe system. Ceramics International, 2009, 35, 83-86.	2.3	27
30	Corrosion resistance of non-stoichiometric gadolinium zirconate fabricated by laser-enhanced chemical vapor deposition. Journal of Advanced Ceramics, 2021, 10, 520-528.	8.9	25
31	Glass Formation and Properties of Chalcogenides in a GeSe2?As2Se3?PbSe System. Journal of the American Ceramic Society, 2007, 90, 1500-1503.	1.9	24
32	Whale phylogeny and rapid radiation events revealed using novel retroposed elements and their flanking sequences. BMC Evolutionary Biology, 2011, 11, 314.	3.2	24
33	Accurate Second Harmonic Generation Microimprinting in Glassy Oxide Materials. Advanced Optical Materials, 2016, 4, 929-935.	3.6	24
34	Molecular Footprints of Aquatic Adaptation Including Bone Mass Changes in Cetaceans. Genome Biology and Evolution, 2018, 10, 967-975.	1.1	23
35	Effect of TGO evolution and element diffusion on the life span of YSZ/Ptâ€“Al and YSZ/NiCrAlY coatings at high temperature. Ceramics International, 2020, 46, 813-823.	2.3	23
36	Native point defects and oxygen migration of rare earth zirconate and stannate pyrochlores. Journal of Materials Science and Technology, 2021, 73, 23-30.	5.6	22

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37	Sodium tungsten bronze (Na WO3)-doped near-infrared-shielding bulk glasses for energy-saving applications. Journal of Materials Science and Technology, 2021, 89, 150-157.	5.6	22
38	Broadband near-infrared emission of chromium-doped sulfide glass-ceramics containing Ga_2S_3 nanocrystals. Optics Letters, 2012, 37, 5043.	1.7	21
39	Improved resistance of lanthanum zirconate coatings to calcium-magnesium-alumina-silicate corrosion through composition tailoring. Ceramics International, 2018, 44, 13908-13915.	2.3	20
40	Third-order nonlinearities in GeSe2â€“In2Se3â€“CsI glasses for telecommunications applications. Optical Materials, 2008, 31, 75-78.	1.7	19
41	Luminescence Behaviors of Ce³⁺ Ions in Chalcohalide Glasses. Journal of the American Ceramic Society, 2010, 93, 614-617.	1.9	19
42	High performance crosslinked system based on reaction of benzoxazine with benzoxazole. Journal of Polymer Science Part A, 2014, 52, 1514-1518.	2.5	19
43	Microstructural Evolution of NiCoCrAlHfYSi and NiCoCrAlTaY Coatings Deposited by AC-HVAF and APS. Journal of Thermal Spray Technology, 2017, 26, 1758-1775.	1.6	19
44	Synthesis of nanocrystallized zirconium carbide based on an aqueous solution-derived precursor. RSC Advances, 2017, 7, 22722-22727.	1.7	18
45	A LA-ICP-MS sulphide calibration standard based on a chalcogenide glass. Mineralogical Magazine, 2011, 75, 279-287.	0.6	17
46	Highâ€temperature mechanical and thermal properties of Ca_{1â^'}_xSr_xZrO₃ solid solutions. Journal of the American Ceramic Society, 2020, 103, 1992-2000.	1.9	17
47	Effects of thermal treatment on broadband near-infrared emission from Bi-doped chalcohalide glasses. Journal of the European Ceramic Society, 2008, 28, 3189-3191.	2.8	16
48	77Se solid-state NMR of As2Se3, As4Se4 and As4Se3 crystals: a combined experimental and computational study. Physical Chemistry Chemical Physics, 2013, 15, 6284.	1.3	15
49	Effect of Pt content on initial TGO formation and available Al reserve of Pt-Al coatings during thermal cycling. Surface and Coatings Technology, 2018, 337, 82-89.	2.2	15
50	Viscosity of As2Se3 Glass During the Fiber Drawing Process. Journal of the American Ceramic Society, 2011, 94, 2408-2411.	1.9	14
51	Genetic basis of brain size evolution in cetaceans: insights from adaptive evolution of seven primary microcephaly (MCPH) genes. BMC Evolutionary Biology, 2017, 17, 206.	3.2	12
52	Preparation of lanthanum zirconate films with a widely controllable La/Zr ratio by LCVD. Ceramics International, 2018, 44, 10621-10627.	2.3	12
53	Alkali metal tungsten bronze-doped energy-saving glasses for near-infrared shielding applications. Ceramics International, 2021, 47, 31122-31129.	2.3	12
54	Fabrication of columnar structured lanthanum zirconate films by laser CVD. Journal of the American Ceramic Society, 2017, 100, 4232-4239.	1.9	11

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55	Bioinspired Ant-Nest-Like Hierarchical Porous Material Using CaCl₂ as Additive for Smart Indoor Humidity Control. Industrial & Engineering Chemistry Research, 2019, 58, 7139-7145.	1.8	11
56	Fabrication of gadolinium zirconate films by laser CVD. Ceramics International, 2019, 45, 4926-4933.	2.3	11
57	First-Principles Study of Intrinsic Point Defects and Optical Properties of SmNiO₃. Journal of Physical Chemistry A, 2021, 125, 356-365.	1.1	11
58	Influence of composition on molten sulfate-vanadate salt corrosion resistance of lanthanum zirconate coatings. Ceramics International, 2018, 44, 22911-22918.	2.3	10
59	Insights into body size variation in cetaceans from the evolution of body-size-related genes. BMC Evolutionary Biology, 2019, 19, 157.	3.2	10
60	Doping Sodium Tungsten Bronze-Like (Na₅W₁₄O₄₄) Near-Infrared Shielding Functional Units in Bulk Borosilicate Glasses for Energy-Saving Window Applications. ACS Applied Materials & Interfaces, 2022, 14, 32206-32217.	4.0	10
61	Developing a series of conservative anchor markers and their application to phylogenomics of Laurasiatherian mammals. Molecular Ecology Resources, 2011, 11, 134-140.	2.2	9
62	Study on crystallization behaviors of Asâ€“Seâ€“Bi chalcogenide glasses. Journal of the American Ceramic Society, 2017, 100, 5512-5520.	1.9	9
63	Oxidation behavior of Hf-modified platinum aluminide coatings during thermal cycling. Progress in Natural Science: Materials International, 2018, 28, 34-39.	1.8	8
64	Preparation and corrosion resistance of nonstoichiometric lanthanum zirconate coatings. Journal of the European Ceramic Society, 2020, 40, 3122-3128.	2.8	8
65	Effect of physical aging on fracture behavior of Te2As3Se5 glass fibers. Ceramics International, 2015, 41, 4487-4491.	2.3	7
66	Imprinting gradient refractive index micro-structure in GeS2â€“Ga2S3â€“KCl glass for broadband diffraction grating. Optical Materials, 2020, 101, 109766.	1.7	7
67	Corrosion resistance of nonstoichiometric gadolinium zirconate coatings against CaO-MgO-Al2O3-SiO2 silicate. Journal of the European Ceramic Society, 2021, 41, 3687-3695.	2.8	7
68	Fluorescenceâ€“Phosphorescence Manipulation and Atom Probe Observation of Fully Inorganic Silver Quantum Clusters: Imitating from and Behaving beyond Organic Hosts. Advanced Optical Materials, 2022, 10, 2101632.	3.6	7
69	Millisecond kinetics of photo-darkening/bleaching in xGe45Se55-(1â^'x)As45Se55 chalcogenide amorphous films. Journal of Applied Physics, 2012, 112, .	1.1	6
70	Colorful Wall-Bricks with Superhydrophobic Surfaces for Enhanced Smart Indoor Humidity Control. ACS Omega, 2019, 4, 13896-13901.	1.6	6
71	Ultralow voltage imprinting in GeS2â€“Ga2S3â€“AgI glasses for visible to middle-infrared diffraction gratings. Ceramics International, 2020, 46, 9030-9039.	2.3	6
72	Extensive Interspecific Gene Flow Shaped Complex Evolutionary History and Underestimated Species Diversity in Rapidly Radiated Dolphins. Journal of Mammalian Evolution, 2022, 29, 353-367.	1.0	6

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73	Luminescence of Dy3+-doped GexGa5Se(95â^'x) glasses. Journal of Non-Crystalline Solids, 2008, 354, 1294-1297.	1.5	5
74	Diffusion behaviour of Pt in platinum aluminide coatings during thermal cycles. International Journal of Materials Research, 2018, 109, 3-9.	0.1	5
75	Self-Reversible Photodarkening of the Mixed GeS2-SbSI Glasses. Journal of the American Ceramic Society, 2011, 94, 1657-1660.	1.9	4
76	Effect of Physical Aging Conditions on the Mechanical Properties of <scp><scp>Te</scp></scp>₂<scp><scp>As</scp></scp>₃<scp><scp>Se</scp></scp>₅ (<scp>TAS</scp>) Glass Fibers. Journal of the American Ceramic Society, 2013, 96, 464-468.	1.9	4
77	Synthesis and Characterization of Polybenzobisoxazole Polymers Containing Trifluoromethyl or Sulfone Groups. Journal of Macromolecular Science - Physics, 2014, 53, 412-427.	0.4	4
78	Correlation between ultrabroadband nearâ€infrared emission and Yb³⁺/Ni²⁺ dopants distribution in highly transparent germanate glassâ€ceramics containing zinc gallogermanate nanospinels. Journal of the American Ceramic Society, 2019, 102, 1619-1627.	1.9	4
79	Mixed alkali effects in Er 3+ â€doped borate glasses: Influence on physical, mechanical, and photoluminescence properties. Journal of the American Ceramic Society, 2019, 102, 4562-4572.	1.9	4
80	Effect of halogen on imprinting gradient refractive index microstructure in GeS2â€“Ga2S3â€“NaX (X=F,) Tj ETQq0 0 0 rgBT /Overlock 10 28511-28520.	2.3	4
81	Energy-saving glasses based on sodium tungsten bronze-like (Na5W14O44) functional units: Facile synthesis, NIR-shielding performance, and formation mechanism. Ceramics International, 2022, 48, 21141-21150.	2.3	4
82	Effects of Pb on Thermal Stability and Crystallization Kinetics of GeS₂â€“Sb₂S₃â€“PbS Glasses. International Journal of Applied Glass Science, 2016, 7, 337-344.	1.0	3
83	Microstructured SHG patterns on Sm2O3-doped borophosphate niobium glasses by laser-induced thermal poling. Ceramics International, 2021, 47, 10123-10129.	2.3	2
84	Electrochemic and Photophysics Properties of Pyridine-Based Electron Transmission Material. Journal of Macromolecular Science - Physics, 2013, 52, 826-840.	0.4	1
85	Divergence of Tbx4 hindlimb enhancer HLEA underlies the hindlimb loss during cetacean evolution. Genomics, 2022, 114, 110292.	1.3	1