George Hasegawa

List of Publications by Year in Descending Order

75 papers	2,226 citations	27 h-index	46 g-index
82 ext. papers	2,520 ext. citations	5.5 avg, IF	4.97 L-index

#	Paper	IF	Citations
75	Monolithic carbon electrodes: Synthesis, pore control and electrochemistry **2022**, 1, 34-49		
74	Sn-Based Perovskite with a Wide Visible-Light Absorption Band Assisted by Hydride Doping. *Chemistry of Materials*, **2021**, 33, 3631-3638	9.6	3
73	Porous reduced ceramic monoliths derived from silicon- and titanium-based preceramic polymer gels. *Journal of the Ceramic Society of Japan*, **2021**, 129, 227-233	1	1
72	Preparation of hierarchically porous spinel CoMn2O4 monoliths via sol–gel process accompanied by phase separation. *Journal of the American Ceramic Society*, **2021**, 104, 2449-2459	3.8	1
71	Sodium ion conduction in sodium lanthanum zirconate ceramics prepared by spark plasma sintering. *Scripta Materialia*, **2021**, 200, 113887	5.6	
70	Designing hierarchical porosity in tin oxide monoliths and their application as a solid acid catalyst. *New Journal of Chemistry*, **2021**, 45, 17558-17565	3.6	
69	Reversible Electrochemical Insertion/Extraction of Magnesium Ion into/from Robust NASICON-Type Crystal Lattice in a Mg(BF4)2-Based Electrolyte. *ACS Applied Energy Materials*, **2020**, 3, 6824-6833	6.1	5
68	Variation of meso- and macroporous morphologies in resorcinol–formaldehyde (RF) gels tailored via a sol–gel process combined with soft-templating and phase separation. *Journal of Sol-Gel Science and Technology*, **2020**, 95, 801-812	2.3	3
67	Ferroelectricity of Dion–Jacobson layered perovskites CsNdNb2O7 and RbNdNb2O7. *Japanese Journal of Applied Physics*, **2020**, 59, SPPC04	1.4	5
66	Hierarchically porous monoliths prepared via sol–gel process accompanied by spinodal decomposition. *Journal of Sol-Gel Science and Technology*, **2020**, 95, 530-550	2.3	17
65	Gas sorption porosimetry for the evaluation of hard carbons as anodes for Li- and Na-ion batteries. *Beilstein Journal of Nanotechnology*, **2020**, 11, 1217-1229	3	1
64	Thermogravimetric Evolved Gas Analysis and Microscopic Elemental Mapping of the Solid Electrolyte Interphase on Silicon Incorporated in Free-Standing Porous Carbon Electrodes. *Langmuir*, **2019**, 35, 12680-12688	4	4
63	Sodium titanium oxide bronze nanoparticles synthesized via concurrent reduction and Na-doping into TiO(B). *Nanoscale*, **2019**, 11, 1442-1450	7.7	6
62	Characterization of an AX Compound Derived from Ti2SC MAX Phase. *European Journal of Inorganic Chemistry*, **2019**, 2019, 2312-2317	2.3	1
61	A highly conductive Na3V2(PO4)3 ceramic sheet prepared by tape-casting method. *Electrochimica Acta*, **2019**, 305, 197-203	6.7	6
60	Insights into Sodium Ion Transfer at the Na/NASICON Interface Improved by Uniaxial Compression. *ACS Applied Energy Materials*, **2019**, 2, 2913-2920	6.1	24
59	Comprehensive studies on phosphoric acid treatment of porous titania toward titanium phosphate and pyrophosphate monoliths with pore hierarchy and a nanostructured pore surface. *Inorganic Chemistry Frontiers*, **2018**, 5, 1397-1404	6.8	5

58	A dense NASICON sheet prepared by tape-casting and low temperature sintering. *Electrochimica Acta*, **2018**, 278, 176-181	6.7	19
57	Topotactic Synthesis of Mesoporous 12CaO·7Al2O3 Mesocrystalline Microcubes toward Catalytic Ammonia Synthesis. *Chemistry of Materials*, **2018**, 30, 4498-4502	9.6	10
56	Low temperature-densified NASICON-based ceramics promoted by Na2O-Nb2O5-P2O5 glass additive and spark plasma sintering. *Solid State Ionics*, **2018**, 322, 54-60	3.3	24
55	On-line Redox Derivatization Liquid Chromatography Using a Carbon Monolithic Column. *Bunseki Kagaku*, **2018**, 67, 469-478	0.2	
54	Highly Flexible Hybrid Polymer Aerogels and Xerogels Based on Resorcinol-Formaldehyde with Enhanced Elastic Stiffness and Recoverability: Insights into the Origin of Their Mechanical Properties. *Chemistry of Materials*, **2017**, 29, 2122-2134	9.6	53
53	Amine/Hydrido Bifunctional Nanoporous Silica with Small Metal Nanoparticles Made Onsite: Efficient Dehydrogenation Catalyst. *ACS Applied Materials & Interfaces*, **2017**, 9, 36-41	9.5	11
52	Nanostructured titanium phosphates prepared via hydrothermal reaction and their electrochemical Li- and Na-ion intercalation properties. *CrystEngComm*, **2017**, 19, 4551-4560	3.3	11
51	Sol□Gel Processing of Porous Materials **2017**, 195-241		2
50	Studies on electrochemical sodium storage into hard carbons with binder-free monolithic electrodes. *Journal of Power Sources*, **2016**, 318, 41-48	8.9	47
49	Infiltrated porous oxide monoliths as high lithium transference number electrolytes. *Journal of Materials Chemistry A*, **2016**, 4, 7135-7140	13	24
48	Hierarchically Porous Carbon Monoliths Comprising Ordered Mesoporous Nanorod Assemblies for High-Voltage Aqueous Supercapacitors. *Chemistry of Materials*, **2016**, 28, 3944-3950	9.6	160
47	High-Level Doping of Nitrogen, Phosphorus, and Sulfur into Activated Carbon Monoliths and Their Electrochemical Capacitances. *Chemistry of Materials*, **2015**, 27, 4703-4712	9.6	174
46	Ultralow-Density, Transparent, Superamphiphobic Boehmite Nanofiber Aerogels and Their Alumina Derivatives. *Chemistry of Materials*, **2015**, 27, 3-5	9.6	51
45	Impact of Electrolyte on Pseudocapacitance and Stability of Porous Titanium Nitride (TiN) Monolithic Electrode. *Journal of the Electrochemical Society*, **2015**, 162, A77-A85	3.9	42
44	Hierarchically Porous Li4Ti5O12 Anode Materials for Li- and Na-Ion Batteries: Effects of Nanoarchitectural Design and Temperature Dependence of the Rate Capability. *Advanced Energy Materials*, **2015**, 5, 1400730	21.8	111
43	High-performance liquid chromatography separation of unsaturated organic compounds by a monolithic silica column embedded with silver nanoparticles. *Journal of Separation Science*, **2015**, 38, 2841-7	3.4	10
42	Hard Carbon Anodes for Na-Ion Batteries: Toward a Practical Use. *ChemElectroChem*, **2015**, 2, 1917-1920	4.3	83
41	Effect of calcination conditions on porous reduced titanium oxides and oxynitrides via a preceramic polymer route. *Inorganic Chemistry*, **2015**, 54, 2802-8	5.1	10

40	Reduction on reactive pore surfaces as a versatile approach to synthesize monolith-supported metal alloy nanoparticles and their catalytic applications. *Journal of Materials Chemistry A*, **2014**, 2, 12535	13	29
39	Porous chromium-based ceramic monoliths: oxides (Cr2O3), nitrides (CrN), and carbides (Cr3C2). *Journal of Materials Chemistry A*, **2014**, 2, 745-752	13	26
38	Synthesis and electrochemical performance of hierarchically porous N-doped TiO2 for Li-ion batteries. *New Journal of Chemistry*, **2014**, 38, 1380	3.6	25
37	Hierarchically Porous Monoliths Based on N-Doped Reduced Titanium Oxides and Their Electric and Electrochemical Properties. *Chemistry of Materials*, **2013**, 25, 3504-3512	9.6	45
36	Hierarchically Porous Carbon Monoliths with High Surface Area from Arylene-Bridged Polysilsesquioxanes Without Thermal Activation Process. *Springer Theses*, **2013**, 163-179	0.1	
35	A superamphiphobic macroporous silicone monolith with marshmallow-like flexibility. *Angewandte Chemie - International Edition*, **2013**, 52, 10788-91	16.4	101
34	Studies on Porous Monolithic Materials Prepared via Sol□Gel Processes. *Springer Theses*, **2013**,	0.1	9
33	New Li2FeSiO4-carbon monoliths with controlled macropores: effects of pore properties on electrode performance. *Physical Chemistry Chemical Physics*, **2013**, 15, 8736-43	3.6	16
32	Novel and Facile Preparation of Hierarchically Porous TiO2 Monoliths. *Springer Theses*, **2013**, 107-119	0.1	
31	Hierarchically porous monoliths of oxygen-deficient anatase TiO2□ with electronic conductivity. *RSC Advances*, **2013**, 3, 7205	3.7	9
30	Application of Hierarchically Porous Titania Monoliths to Chromatographic Separation Media. *Springer Theses*, **2013**, 121-134	0.1	
29	Novel Monolithic Capillary Column with Well-Defined Macropores Based on Poly(styrene-co-divinylbenzene). *Springer Theses*, **2013**, 47-60	0.1	
28	A Superamphiphobic Macroporous Silicone Monolith with Marshmallow-like Flexibility. *Angewandte Chemie*, **2013**, 125, 10988-10991	3.6	16
27	Monolithic Electrode for Electric Double-Layer Capacitors Based on Macro/Meso/Microporous S-Containing Activated Carbon with High Surface Area. *Springer Theses*, **2013**, 79-89	0.1	3
26	Flower-like surface modification of titania materials by lithium hydroxide solution. *Journal of Colloid and Interface Science*, **2012**, 374, 291-6	9.3	10
25	Facile preparation of macroporous graphitized carbon monoliths from iron-containing resorcinol□formaldehyde gels. *Materials Letters*, **2012**, 76, 1-4	3.3	30
24	Pore properties of hierarchically porous carbon monoliths with high surface area obtained from bridged polysilsesquioxanes. *Microporous and Mesoporous Materials*, **2012**, 155, 265-273	5.3	18
23	New Insights into the Relationship between Micropore Properties, Ionic Sizes, and Electric Double-Layer Capacitance in Monolithic Carbon Electrodes. *Journal of Physical Chemistry C*, **2012**, 116, 26197-26203	3.8	35

22	New monolithic capillary columns with well-defined macropores based on poly(styrene-co-divinylbenzene). *ACS Applied Materials & Interfaces*, **2012**, 4, 2343-7	9.5	33
21	Selective preparation of macroporous monoliths of conductive titanium oxides Ti(n)O(2n-1) (n = 2, 3, 4, 6). *Journal of the American Chemical Society*, **2012**, 134, 10894-8	16.4	88
20	Facile Preparation of Monolithic LiFePO4/Carbon Composites with Well-Defined Macropores for a Lithium-Ion Battery. *Chemistry of Materials*, **2011**, 23, 5208-5216	9.6	77
19	Facile preparation of monolithic magnesium titanates with hierarchical porosity. *Journal of the Ceramic Society of Japan*, **2011**, 119, 440-444	1	6
18	Preparation of Hierarchically Porous Nanocrystalline CaTiO3, SrTiO3 and BaTiO3 Perovskite Monoliths. *Journal of the American Ceramic Society*, **2011**, 94, 3335-3339	3.8	34
17	Fabrication of highly crosslinked methacrylate-based polymer monoliths with well-defined macropores via living radical polymerization. *Polymer*, **2011**, 52, 4644-4647	3.9	35
16	New hierarchically porous titania monoliths for chromatographic separation media. *Journal of Separation Science*, **2011**, 34, 3004-10	3.4	25
15	Monolithic electrode for electric double-layer capacitors based on macro/meso/microporous S-Containing activated carbon with high surface area. *Journal of Materials Chemistry*, **2011**, 21, 2060		141
14	Hierarchically Porous Carbon Monoliths with High Surface Area from Bridged Poly(silsesquioxane) without Thermal Activation Process. *IOP Conference Series: Materials Science and Engineering*, **2011**, 18, 032005	0.4	
13	Macroporous Carbon Monoliths with Large Surface Area for Electric Double-Layer Capacitor. *Materials Research Society Symposia Proceedings*, **2011**, 1304, 1		
12	Facile Preparation of Hierarchically Porous TiO2 Monoliths. *Journal of the American Ceramic Society*, **2010**, 93, 3110-3115	3.8	82
11	Hierarchically porous carbon monoliths with high surface area from bridged polysilsesquioxanes without thermal activation process. *Chemical Communications*, **2010**, 46, 8037-9	5.8	25
10	A New Route to Monolithic Macroporous SiC/C Composites from Biphenylene-bridged Polysilsesquioxane Gels. *Chemistry of Materials*, **2010**, 22, 2541-2547	9.6	41
9	Facile preparation of transparent monolithic titania gels utilizing a chelating ligand and mineral salts. *Journal of Sol-Gel Science and Technology*, **2010**, 53, 59-66	2.3	30
8	Fabrication of activated carbons with well-defined macropores derived from sulfonated poly(divinylbenzene) networks. *Carbon*, **2010**, 48, 1757-1766	10.4	62
7	Macro- and microporous carbon monoliths with high surface areas pyrolyzed from poly(divinylbenzene) networks. *Comptes Rendus Chimie*, **2010**, 13, 207-211	2.7	21
6	Rigid crosslinked polyacrylamide monoliths with well-defined macropores synthesized by living polymerization. *Macromolecular Rapid Communications*, **2009**, 30, 986-90	4.8	53
5	Pore Formation in Poly(divinylbenzene) Networks Derived from Organotellurium-Mediated Living Radical Polymerization. *Macromolecules*, **2009**, 42, 1270-1277	5.5	62

4	Fabrication of macroporous silicon carbide ceramics by intramolecular carbothermal reduction of phenyl-bridged polysilsesquioxane. *Journal of Materials Chemistry*, **2009**, 19, 7716		33
3	Facile Synthesis of Macroporous Cross-Linked Methacrylate Gels by Atom Transfer Radical Polymerization. *Macromolecules*, **2008**, 41, 7186-7193	5.5	79
2	Hierarchically Porous Polymer and Carbon Monoliths via Controlled/Living Radical Polymerization	1-29	0
1	Porous polymer-derived ceramics: Flexible morphological and compositional controls through sol□el chemistry. *Journal of the American Ceramic Society*,	3.8	1