Xiangeng Meng

List of Publications by Year
in descending order

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		186265	168389
78	3,003	28	53
papers	citations	h-index	g-index

79	79	79	3265
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Broadband Hotâ€Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride. Advanced Optical Materials, 2017, 5, 1601031.	7.3	248
2	Bismuth- and aluminum-codoped germanium oxide glasses for super-broadband optical amplification. Optics Letters, 2004, 29, 1998.	3.3	240
3	Superbroadband 1310 nm emission from bismuth and tantalum codoped germanium oxide glasses. Optics Letters, 2005, 30, 2433.	3.3	214
4	Wavelength-Tunable Spasing in the Visible. Nano Letters, 2013, 13, 4106-4112.	9.1	166
5	Co4N nanoparticles encapsulated in N-doped carbon box as tri-functional catalyst for Zn-air battery and overall water splitting. Applied Catalysis B: Environmental, 2020, 275, 119104.	20.2	159
6	Random lasers with coherent feedback from highly transparent polymer films embedded with silver nanoparticles. Applied Physics Letters, 2008, 92, .	3.3	127
7	Gramâ€Scale Synthesis of 41% Efficient Singleâ€Component Whiteâ€Lightâ€Emissive Carbonized Polymer Dots with Hybrid Fluorescence/Phosphorescence for White Lightâ€Emitting Diodes. Advanced Science, 2020, 7, 1902688.	11.2	122
8	Plasmonically Controlled Lasing Resonance with Metallicâ^'Dielectric Coreâ^'Shell Nanoparticles. Nano Letters, 2011, 11, 1374-1378.	9.1	117
9	Coherent random lasers in weakly scattering polymer films containing silver nanoparticles. Physical Review A, 2009, 79, .	2.5	103
10	Broadband infrared luminescence from Li2O-Al2O3-ZnO-SiO2 glasses doped with Bi2O3. Optics Express, 2005, 13, 6892.	3.4	98
11	Spatially Responsive Multicolor Lanthanideâ€MOF Heterostructures for Covert Photonic Barcodes. Angewandte Chemie - International Edition, 2020, 59, 19060-19064.	13.8	71
12	Highly directional spaser array for the red wavelength region. Laser and Photonics Reviews, 2014, 8, 896-903.	8.7	69
13	Controlling Random Lasing with Three-Dimensional Plasmonic Nanorod Metamaterials. Nano Letters, 2016, 16, 2471-2477.	9.1	66
14	Nanolasers Enabled by Metallic Nanoparticles: From Spasers to Random Lasers. Laser and Photonics Reviews, 2017, 11, 1700212.	8.7	63
15	Metalâ€“Dielectric Coreâ€“Shell Nanoparticles: Advanced Plasmonic Architectures Towards Multiple Control of Random Lasers. Advanced Optical Materials, 2013, 1, 573-580.	7.3	62
16	Unidirectional Spaser in Symmetry-Broken Plasmonic Core-Shell Nanocavity. Scientific Reports, 2013, 3, 1241.	3.3	55
17	GeO2: Bi,M (M=Ga,B) glasses with super-wide infrared luminescence. Chemical Physics Letters, 2005, 403, 410-414.	2.6	50
18	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. ACS Photonics, 2017, 4, 674-680.	6.6	49

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19	FeS₂ nanosheets encapsulated in 3D porous carbon spheres for excellent Na storage in sodium-ion batteries. Inorganic Chemistry Frontiers, 2018, 5, 2462-2471.	6.0	47
20	Bright tricolor ultrabroad-band emission carbon dots for white light-emitting diodes with a 96.5 high color rendering index. Journal of Materials Chemistry C, 2020, 8, 1286-1291.	5.5	45
21	Novel Bi-doped glasses for broadband optical amplification. Journal of Non-Crystalline Solids, 2008, 354, 1235-1239.	3.1	44
22	Ultralong-lived room temperature phosphorescence from N and P codoped self-protective carbonized polymer dots for confidential information encryption and decryption. Journal of Materials Chemistry C, 2021, 9, 4847-4853.	5.5	44
23	Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide. Advanced Optical Materials, 2017, 5, 1600717.	7.3	42
24	Thermally Driven Amorphousâ€Crystalline Phase Transition of Carbonized Polymer Dots for Multicolor Roomâ€Temperature Phosphorescence. Advanced Optical Materials, 2021, 9, 2100421.	7.3	38
25	Self-assembled Mn-doped MoS₂ hollow nanotubes with significantly enhanced sodium storage for high-performance sodium-ion batteries. Inorganic Chemistry Frontiers, 2018, 5, 1587-1593.	6.0	37
26	Porous Coreâ€“Shell CuCo₂S₄ Nanospheres as Anode Material for Enhanced Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2019, 25, 885-891.	3.3	37
27	Random lasing in ballistic and diffusiveâ€regimes for macroporous silica-based systems with tunable scattering strength. Optics Express, 2010, 18, 12153.	3.4	30
28	Ce3+ and Dy3+ doped Ca3(P1-xBxO4)2 phosphors for white light-emitting applications. Journal of Alloys and Compounds, 2019, 775, 1044-1051.	5.5	28
29	Laterally Engineering Lanthanideâ€MOFs Epitaxial Heterostructures for Spatially Resolved Planar 2D Photonic Barcoding. Angewandte Chemie - International Edition, 2021, 60, 24519-24525.	13.8	27
30	Aggregation-induced room temperature phosphorescent carbonized polymer dots with wide-range tunable lifetimes for optical multiplexing. Journal of Materials Chemistry C, 2021, 9, 6781-6788.	5.5	27
31	Metalâ€“Organic Framework-Activated Full-Color Room-Temperature Phosphorescent Carbon Dots with a Wide Range of Tunable Lifetimes for 4D Coding Applications. Journal of Physical Chemistry C, 2022, 126, 11701-11708.	3.1	27
32	Lasing from Zero-Dimensional Perovskite and Optical Imaging Applications. ACS Photonics, 2019, 6, 3290-3297.	6.6	25
33	Fabrication of CoFe₂O₄ and NiFe₂O₄ nanoporous spheres as promising anodes for high performance lithium-ion batteries. New Journal of Chemistry, 2017, 41, 15501-15507.	2.8	24
34	One-dimensional Mn3O4/NiCo2S4 nanocomposites as high-performance bifunctional electrocatalyst for rechargeable liquid/flexible Zn-air batteries. Journal of Power Sources, 2020, 462, 228162.	7.8	24
35	Hollow NiCo2O4 nanospheres supported on N-doped carbon nanowebs as efficient bifunctional catalyst for rechargeable and flexible Zn-air batteries. Electrochimica Acta, 2019, 319, 1-9.	5.2	23
36	Topologicalâ€Distortionâ€Driven Amorphous Spherical Metalâ€Organic Frameworks for Highâ€Quality Singleâ€Mode Microlasers. Angewandte Chemie - International Edition, 2021, 60, 6362-6366.	13.8	23

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37	Effect of Al2O3 and La2O3 on structure and spectroscopic properties of Nd-doped solâ€“gel silica glasses. Journal of Luminescence, 2018, 204, 554-559.	3.1	19
38	Dynamically wavelength-tunable random lasers based on metalâ€“organic framework particles. Nanoscale, 2020, 12, 4833-4838.	5.6	19
39	Photonic engineering of superbroadband near-infrared emission in nanoglass composites containing hybrid metal and dielectric nanocrystals. Photonics Research, 2020, 8, 698.	7.0	18
40	Dy and Eu activated Ca₃B₂O₆ phosphors for near ultravioletâ€based lightâ€emitting diodes. Journal of the American Ceramic Society, 2018, 101, 5461-5468.	3.8	16
41	Intense greenish emission from d0 transition metal ion Ti4+ in oxide glass. Applied Physics Letters, 2007, 90, 051917.	3.3	15
42	Intense blue emission from tantalum-doped silicate glass. Applied Physics Letters, 2006, 89, 061914.	3.3	14
43	Pr3+ doped oxyfluoride silicate glasses for LEDs. Ceramics International, 2019, 45, 4108-4112.	4.8	14
44	Al2O3-Doped MoO3-TeO2 Glass as Anode Materials for Lithium-Ion Batteries with Long-Term Cycle Life. Journal of Electronic Materials, 2020, 49, 271-281.	2.2	14
45	Stimulated emission from CsPbBr₃ quantum dot nanoglass. Optical Materials Express, 2019, 9, 3390.	3.0	14
46	Multicolor Random Lasers Based on Perovskite Quantum Dots Embedded in Intrinsic Pbâ€“MOFs. Journal of Physical Chemistry C, 2021, 125, 25757-25764.	3.1	13
47	Angled physical vapor deposition techniques for non-conformal thin films and three-dimensional structures. MRS Communications, 2016, 6, 17-22.	1.8	12
48	Spatially Responsive Multicolor Lanthanideâ€MOF Heterostructures for Covert Photonic Barcodes. Angewandte Chemie, 2020, 132, 19222-19226.	2.0	12
49	Effect of low-level Ca2+ substitution at perovskite B site on the properties of BaZr0.8Y0.2O3-Î´. Journal of Alloys and Compounds, 2019, 805, 718-724.	5.5	11
50	Submillimeter-Scale Zero-Dimensional Cs4PbBr6 Perovskite Rods: Fabrication, Optical Properties, and Applications. ACS Applied Electronic Materials, 2020, 2, 2408-2417.	4.3	11
51	Two-photon-excited fluorescence from silicate glass containing tantalum ions pumped by a near-infrared femtosecond pulsed laser. Optics Letters, 2006, 31, 2867.	3.3	10
52	Zero-Dimensional Perovskite Open Cavities for Low-Threshold Stimulated Emissions. Journal of Physical Chemistry C, 2020, 124, 25499-25508.	3.1	10
53	Fluorescence properties and laser demonstrations of Nd-doped high silica glasses prepared by sintering nanoporous glass. Journal of Non-Crystalline Solids, 2008, 354, 1226-1229.	3.1	9
54	Coherent random lasers from weakly scattering polymer films embedded with superfine silver nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S102.	0.8	9

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55	Exploring Timeâ€Resolved Multiphysics of Active Plasmonic Systems with Experimentâ€Based Gain Models. Laser and Photonics Reviews, 2019, 13, 1800071.	8.7	9
56	Hierarchical porous Fe3O4@N-doped carbon nanoellipsoids with excellent electrochemical performance as anode for lithium-ion batteries. Journal of Solid State Chemistry, 2020, 282, 121118.	2.9	9
57	2D/3D heterostructure derived from phase transformation of 0D perovskite for random lasing applications with remarkably improved water resistance. Nanoscale, 2021, 13, 18647-18656.	5.6	9
58	Intense visible emissions from d 0 ions-doped silicate glasses. Journal of the Ceramic Society of Japan, 2008, 116, 1147-1149.	1.1	8
59	Lasing from solution-processed CsPbBr3 octahedral resonators. Journal of Luminescence, 2021, 229, 117713.	3.1	8
60	Laterally Engineering Lanthanideâ€MOFs Epitaxial Heterostructures for Spatially Resolved Planar 2D Photonic Barcoding. Angewandte Chemie, 2021, 133, 24724.	2.0	6
61	Costâ€effective porous ceramic tubes fabricated through a phase inversion/casting process using calcined bauxite. International Journal of Applied Ceramic Technology, 2018, 15, 1567-1576.	2.1	5
62	Enabling random lasing in an ultrabroad spectral range with robust platforms based on amorphous media. Nanoscale, 2018, 10, 17275-17282.	5.6	5
63	Thermally Driven Amorphousâ€Crystalline Phase Transition of Carbonized Polymer Dots for Multicolor Roomâ€Temperature Phosphorescence (Advanced Optical Materials 16/2021). Advanced Optical Materials, 2021, 9, 2170060.	7.3	5
64	Multi-color light emissions from mesoporous silica particles embedded with Ga_2O_3 nanocrystals. Optical Materials Express, 2014, 4, 518.	3.0	4
65	Based on Cu as framework constructed nanoporous CuO/Cu composites by a dealloy method for sodium-ion battery anode. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	4
66	Study on hydrogen permeation of Niâ€BaZr _{0.1} Ce _{0.7} Y _{0.2} O _{3â^' Î´} asymmetric cermet membrane. International Journal of Energy Research, 2019, 43, 4959-4966.	4.5	4
67	Random Lasing Actions Induced by Silver Nanoprisms. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2009, 56, 645-650.	0.2	3
68	Random Dispersion of Metal Nanoparticles Can Form a Laser Cavity. Chemistry Letters, 2010, 39, 532-537.	1.3	3
69	Effects of La3+ and Y3+ doping on spatial homogeneity of Ho3+ ions in high silica glass. Optical Materials, 2020, 99, 109608.	3.6	3
70	Solarâ€Energy Harvesting: Broadband Hotâ€Electron Collection for Solar Water Splitting with Plasmonic Titanium Nitride (Advanced Optical Materials 15/2017). Advanced Optical Materials, 2017, 5, .	7.3	2
71	Topologicalâ€Distortionâ€Driven Amorphous Spherical Metalâ€Organic Frameworks for Highâ€Quality Singleâ€Mode Microlasers. Angewandte Chemie, 2021, 133, 6432-6436.	2.0	2
72	Plasmonics: Metalâ€“Dielectric Coreâ€“Shell Nanoparticles: Advanced Plasmonic Architectures Towards Multiple Control of Random Lasers (Advanced Optical Materials 8/2013). Advanced Optical Materials, 2013, 1, 538-538.	7.3	1

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73	Synthesis of Gold-Silica Core-Shell Nanoparticles with Tunable Shell Thickness. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2013, 60, 49-54.	0.2	1
74	Dynamically controlled random lasing with colloidal titanium carbide MXene. Optical Materials Express, 2020, 10, 2304.	3.0	1
75	Plasmonics: Plasmonic Titanium Nitride Nanostructures via Nitridation of Nanopatterned Titanium Dioxide (Advanced Optical Materials 7/2017). Advanced Optical Materials, 2017, 5, .	7.3	0
76	InnenrÃ¼cktitelbild: Laterally Engineering Lanthanideâ€MOFs Epitaxial Heterostructures for Spatially Resolved Planar 2D Photonic Barcoding (Angew. Chem. 46/2021). Angewandte Chemie, 2021, 133, 24931-24931.	2.0	0
77	Random Laser Oscillation with Low Threshold and Optical Microresonator Based on Nanostructured Metals. The Review of Laser Engineering, 2016, 44, 527.	0.0	0
78	Metal-organomecapto complex-derived mesoporous Co1-xS/N,S-codoped carbon composite for superior lithium ion storage. Journal of Solid State Chemistry, 2022, 306, 122770.	2.9	0