Yu Qiao

List of Publications by Year in Descending Order

150 papers	10,641 citations	48 h-index	102 g-index
158 ext. papers	14,658 ext. citations	12 avg, IF	7.05 L-index

#	Paper	IF	Citations
150	Robust Image Forgery Detection Against Transmission Over Online Social Networks. *IEEE Transactions on Information Forensics and Security*, **2022**, 17, 443-456	8	4
149	Nonvolatile and Nonflammable Sulfolane-Based Electrolyte Achieving Effective and Safe Operation of the Li-O Battery in Open O Environment.. *Nano Letters*, **2022**,	11.5	1
148	Unsupervised person re-identification with multi-label learning guided self-paced clustering. *Pattern Recognition*, **2022**, 125, 108521	7.7	2
147	Regulating the Architecture of a Solid Electrolyte Interface on a Li-Metal Anode of a LiO2 Battery by a Dithiobiuret Additive **2022**, 4, 682-691		0
146	Long-Life Aqueous Zn-I Battery Enabled by a Low-Cost Multifunctional Zeolite Membrane Separator.. *Nano Letters*, **2022**,	11.5	6
145	Joint 3D facial shape reconstruction and texture completion from a single image. *Computational Visual Media*, **2022**, 8, 239-256	3.9	1
144	Formulating a New Electrolyte: Synergy between Low-Polar and Non-polar Solvents in Tailoring the Solid Electrolyte Interface for the Silicon Anode. *ACS Applied Materials & Interfaces*, **2021**, 13, 55700-55711	9.5	1
143	ActFloor-GAN: Activity-Guided Adversarial Networks for Human-Centric Floorplan Design. *IEEE Transactions on Visualization and Computer Graphics*, **2021**, PP,	4	3
142	. *IEEE Transactions on Multimedia*, **2021**, 23, 3603-3617	6.6	1
141	A high-capacity cathode for rechargeable K-metal battery based on reversible superoxide-peroxide conversion. *National Science Review*, **2021**, 8, nwaa287	10.8	6
140	Self-speculation of clinical features based on knowledge distillation for accurate ocular disease classification. *Biomedical Signal Processing and Control*, **2021**, 67, 102491	4.9	6
139	A high-energy-density and long-life initial-anode-free lithium battery enabled by a Li2O sacrificial agent. *Nature Energy*, **2021**, 6, 653-662	62.3	46
138	Amidinothiourea as a new deposition-regulating additive for dendrite-free lithium metal anodes. *Chemical Communications*, **2021**, 57, 10055-10058	5.8	2
137	A Comprehensive Review of Group Activity Recognition in Videos. *International Journal of Automation and Computing*, **2021**, 18, 334-350	3.5	6
136	Domain Adaptive Ensemble Learning. *IEEE Transactions on Image Processing*, **2021**, 30, 8008-8018	8.7	15
135	Learning Dynamical Human-Joint Affinity for 3D Pose Estimation in Videos. *IEEE Transactions on Image Processing*, **2021**, 30, 7914-7925	8.7	4
134	Multi-label ocular disease classification with a dense correlation deep neural network. *Biomedical Signal Processing and Control*, **2021**, 63, 102167	4.9	10

133	Multimodal Machine Learning Using Visual Fields and Peripapillary Circular OCT Scans in Detection of Glaucomatous Optic Neuropathy. *Ophthalmology*, **2021**,	7.3	4
132	Intrusion detection by machine learning for multimedia platform. *Multimedia Tools and Applications* , **2021**, 80, 1-14	2.5	2
131	Deep Learning-Based Chroma Prediction for Intra Versatile Video Coding. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 31, 3168-3181	6.4	5
130	Deep Relation Transformer for Diagnosing Glaucoma With Optical Coherence Tomography and Visual Field Function. *IEEE Transactions on Medical Imaging*, **2021**, 40, 2392-2402	11.7	4
129	Two-dimensional metal□organic framework with perpendicular one-dimensional nano-channel as precise polysulfide sieves for highly efficient lithium□sulfur batteries. *Journal of Materials Chemistry A*, **2021**, 9, 4870-4879	13	5
128	RankSRGAN: Generative Adversarial Networks with Ranker for Image Super-Resolution. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, PP,	13.3	3
127	Learning Discriminative Representation For Facial Expression Recognition From Uncertainties **2020**,		6
126	A hybridized parallel bats algorithm for combinatorial problem of traveling salesman. *Journal of Intelligent and Fuzzy Systems*, **2020**, 38, 5811-5820	1.6	10
125	SIAT-3DFE: A High-Resolution 3D Facial Expression Dataset. *IEEE Access*, **2020**, 8, 48205-48211	3.5	5
124	In Situ Spectroscopic Investigations of Electrochemical Oxygen Reduction and Evolution Reactions in Cyclic Carbonate Electrolyte Solutions. *Journal of Physical Chemistry C*, **2020**, 124, 15781-15792	3.8	5
123	A stable high-voltage lithium-ion battery realized by an in-built water scavenger. *Energy and Environmental Science*, **2020**, 13, 1197-1204	35.4	31
122	Region Attention Networks for Pose and Occlusion Robust Facial Expression Recognition. *IEEE Transactions on Image Processing*, **2020**,	8.7	134
121	MEAD: A Large-Scale Audio-Visual Dataset for Emotional Talking-Face Generation. *Lecture Notes in Computer Science*, **2020**, 700-717	0.9	9
120	FeatherCNN: Fast Inference Computation with TensorGEMM on ARM Architectures. *IEEE Transactions on Parallel and Distributed Systems*, **2020**, 31, 580-594	3.7	8
119	Superior efficient rechargeable lithium□air batteries using a bifunctional biological enzyme catalyst. *Energy and Environmental Science*, **2020**, 13, 144-151	35.4	9
118	Cascade multi-head attention networks for action recognition. *Computer Vision and Image Understanding*, **2020**, 192, 102898	4.3	9
117	Identifying Anionic Redox Activity within the Related O3- and P2-Type Cathodes for Sodium-Ion Battery. *ACS Applied Materials & Interfaces*, **2020**, 12, 851-857	9.5	13
116	Development and clinical deployment of a smartphone-based visual field deep learning system for glaucoma detection. *Npj Digital Medicine*, **2020**, 3, 123	15.7	5

115	Elucidating Anionic Redox Chemistry in P3 Layered Cathode for Na-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 38249-38255	9.5	9
114	DID: Disentangling-Imprinting-Distilling for Continuous Low-Shot Detection. *IEEE Transactions on Image Processing*, **2020**, 29, 7765-7778	8.7	3
113	Multiple Transfer Learning and Multi-label Balanced Training Strategies for Facial AU Detection In the Wild **2020**,		1
112	SmallBigNet: Integrating Core and Contextual Views for Video Classification **2020**,		18
111	COCAS: A Large-Scale Clothes Changing Person Dataset for Re-Identification **2020**,		23
110	Beyond the concentrated electrolyte: further depleting solvent molecules within a Li+ solvation sheath to stabilize high-energy-density lithium metal batteries. *Energy and Environmental Science*, **2020**, 13, 4122-4131	35.4	48
109	Finding hard faces with better proposals and classifier. *Machine Vision and Applications*, **2020**, 31, 1	2.8	1
108	Fast Texture Synthesis via Pseudo Optimizer **2020**,		3
107	Suppressing Uncertainties for Large-Scale Facial Expression Recognition **2020**,		84
106	Machine Learning Modeling for Failure Detection of Elevator Doors by Three-Dimensional Video Monitoring. *IEEE Access*, **2020**, 8, 211595-211609	3.5	3
105	Fabricating better metal-organic frameworks separators for Li□S batteries: Pore sizes effects inspired channel modification strategy. *Energy Storage Materials*, **2020**, 25, 164-171	19.4	46
104	Restraining Oxygen Loss and Suppressing Structural Distortion in a Newly Ti-Substituted Layered Oxide P2-Na0.66Li0.22Ti0.15Mn0.63O2. *ACS Energy Letters*, **2019**, 4, 2409-2417	20.1	58
103	A Comprehensive Study on Center Loss for Deep Face Recognition. *International Journal of Computer Vision*, **2019**, 127, 668-683	10.6	34
102	A New Type of Li-Rich Rock-Salt Oxide Li Ni Ru O with Reversible Anionic Redox Chemistry. *Advanced Materials*, **2019**, 31, e1807825	24	61
101	Mutual Component Convolutional Neural Networks for Heterogeneous Face Recognition. *IEEE Transactions on Image Processing*, **2019**,	8.7	30
100	Developing A □olysulfide-Phobic□Strategy to Restrain Shuttle Effect in Lithium□Sulfur Batteries. *Angewandte Chemie*, **2019**, 131, 11900-11904	3.6	18
99	Killing two birds with one stone: a Cu ion redox mediator for a non-aqueous Li□O2 battery. *Journal of Materials Chemistry A*, **2019**, 7, 17261-17265	13	18
98	Joint retina segmentation and classification for early glaucoma diagnosis. *Biomedical Optics Express* , **2019**, 10, 2639-2656	3.5	20

97	Manganese-Based Na-Rich Materials Boost Anionic Redox in High-Performance Layered Cathodes for Sodium-Ion Batteries. *Advanced Materials*, **2019**, 31, e1807770	24	72
96	The potential of electrolyte filled MOF membranes as ionic sieves in rechargeable batteries. *Energy and Environmental Science*, **2019**, 12, 2327-2344	35.4	76
95	Unraveling the anionic oxygen loss and related structural evolution within O3-type Na layered oxide cathodes. *Journal of Materials Chemistry A*, **2019**, 7, 20405-20413	13	10
94	H2O self-trapping air cathode of LiO2 battery enabling low charge potential operating in dry system. *Nano Energy*, **2019**, 64, 103945	17.1	16
93	A Literature Review: Geometric Methods and Their Applications in Human-Related Analysis. *Sensors* , **2019**, 19,	3.8	1
92	Understanding the effect of the concentration of LiNO3 salt in LiO2 batteries. *Journal of Materials Chemistry A*, **2019**, 7, 18318-18323	13	14
91	Advanced Hybrid Electrolyte Li-O2 Battery Realized by Dual Superlyophobic Membrane. *Joule*, **2019** , 3, 2986-3001	27.8	30
90	Intelligent Glaucoma Diagnosis Via Active Learning And Adversarial Data Augmentation **2019**,		3
89	Exploring Emotion Features and Fusion Strategies for Audio-Video Emotion Recognition **2019**,		17
88	Bootstrap Model Ensemble and Rank Loss for Engagement Intensity Regression **2019**,		6
87	DeepDeblur: text image recovery from blur to sharp. *Multimedia Tools and Applications*, **2019**, 78, 18869-18885	2.5	9
86	Progressive Object Transfer Detection. *IEEE Transactions on Image Processing*, **2019**,	8.7	9
85	Suppressing Model Overfitting for Image Super-Resolution Networks **2019**,		20
84	RankSRGAN: Generative Adversarial Networks With Ranker for Image Super-Resolution **2019**,		87
83	MetaCleaner: Learning to Hallucinate Clean Representations for Noisy-Labeled Visual Recognition **2019**,		24
82	PA3D: Pose-Action 3D Machine for Video Recognition **2019**,		16
81	The Equipment Nameplate Dataset for Scene Text Detection and Recognition* **2019**,		1
80	Robust Text Line Detection in Equipment Nameplate Images* **2019**,		4

79	Modulating Image Restoration With Continual Levels via Adaptive Feature Modification Layers **2019**,		29
78	A high-energy-density and long-life lithium-ion battery via reversible oxide–peroxide conversion. *Nature Catalysis*, **2019**, 2, 1035-1044	36.5	90
77	Temporal Segment Networks for Action Recognition in Videos. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 2740-2755	13.3	171
76	Conjugated Microporous Polymers with Tunable Electronic Structure for High-Performance Potassium-Ion Batteries. *ACS Nano*, **2019**, 13, 745-754	16.7	94
75	NonAqueous, Metal-Free, and Hybrid Electrolyte Li-Ion O Battery with a Single-Ion-Conducting Separator. *ACS Applied Materials & Interfaces*, **2019**, 11, 4908-4914	9.5	11
74	Recent advances in functional modification of separators in lithium-sulfur batteries. *Dalton Transactions*, **2018**, 47, 6881-6887	4.3	38
73	Both Cationic and Anionic Co-(de)intercalation into a Metal-Oxide Material. *Joule*, **2018**, 2, 1134-1145	27.8	70
72	Direct Visualization of the Reversible O /O Redox Process in Li-Rich Cathode Materials. *Advanced Materials*, **2018**, 30, e1705197	24	190
71	Recurrent Spatial-Temporal Attention Network for Action Recognition in Videos. *IEEE Transactions on Image Processing*, **2018**, 27, 1347-1360	8.7	87
70	Real-Time Action Recognition with Deeply-Transferred Motion Vector CNNs. *IEEE Transactions on Image Processing*, **2018**,	8.7	64
69	Reversible anionic redox activity in Na3RuO4 cathodes: a prototype Na-rich layered oxide. *Energy and Environmental Science*, **2018**, 11, 299-305	35.4	90
68	Tailoring Sodium Anodes for Stable Sodium–Oxygen Batteries. *Advanced Functional Materials*, **2018**, 28, 1706374	15.6	41
67	MOF-Based Separator in an Li–O2 Battery: An Effective Strategy to Restrain the Shuttling of Dual Redox Mediators. *ACS Energy Letters*, **2018**, 3, 463-468	20.1	116
66	Amorphous PS/C Composite as High-Performance Anode Materials for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 16-20	9.5	13
65	Clean Electrocatalysis in a Li2O2 Redox-Based Li–O2 Battery Built with a Hydrate-Melt Electrolyte. *ACS Catalysis*, **2018**, 8, 1082-1089	13.1	21
64	A single ion conducting separator and dual mediator-based electrolyte for high-performance lithium–oxygen batteries with non-carbon cathodes. *Journal of Materials Chemistry A*, **2018**, 6, 9816-9822	13	33
63	Porous hybrid aerogels with ultrahigh sulfur loading for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2018**, 6, 9032-9040	13	28
62	Li2CO3-free Li–O2/CO2 battery with peroxide discharge product. *Energy and Environmental Science*, **2018**, 11, 1211-1217	35.4	84

61	Solar-driven efficient Li2O2 oxidation in solid-state Li-ion O2 batteries. *Energy Storage Materials*, **2018**, 11, 170-175	19.4	35
60	Transferring Deep Object and Scene Representations for Event Recognition in Still Images. *International Journal of Computer Vision*, **2018**, 126, 390-409	10.6	27
59	A Hybrid Electrolytes Design for Capacity-Equivalent Dual-Graphite Battery with Superior Long-Term Cycle Life. *Advanced Energy Materials*, **2018**, 8, 1801120	21.8	33
58	A phase-transition-free cathode for sodium-ion batteries with ultralong cycle life. *Nano Energy*, **2018**, 52, 88-94	17.1	36
57	An ultrafast rechargeable lithium metal battery. *Journal of Materials Chemistry A*, **2018**, 6, 15517-15522	13	28
56	A High-Crystalline NaV1.25Ti0.75O4 Anode for Wide-Temperature Sodium-Ion Battery. *Advanced Energy Materials*, **2018**, 8, 1801162	21.8	23
55	Find and Focus: Retrieve and Localize Video Events with Natural Language Queries. *Lecture Notes in Computer Science*, **2018**, 202-218	0.9	19
54	Super-Identity Convolutional Neural Network for Face Hallucination. *Lecture Notes in Computer Science*, **2018**, 196-211	0.9	48
53	Minimizing the Abnormal High-Potential Discharge Process Related to Redox Mediators in Lithium-Oxygen Batteries. *Journal of Physical Chemistry Letters*, **2018**, 9, 6761-6766	6.4	9
52	Automatic differentiation of Glaucoma visual field from non-glaucoma visual filed using deep convolutional neural network. *BMC Medical Imaging*, **2018**, 18, 35	2.9	50
51	High-Voltage Li-Ion Full-Cells with Ultralong Term Cycle Life at Elevated Temperature. *Advanced Energy Materials*, **2018**, 8, 1802322	21.8	22
50	High-Power Li-Metal Anode Enabled by Metal-Organic Framework Modified Electrolyte. *Joule*, **2018**, 2, 2117-2132	27.8	153
49	WildFish **2018**,		12
48	Simultaneously Inhibiting Lithium Dendrites Growth and Polysulfides Shuttle by a Flexible MOF-Based Membrane in Li□S Batteries. *Advanced Energy Materials*, **2018**, 8, 1802130	21.8	158
47	A Multifunctional Silly-Putty Nanocomposite Spontaneously Repairs Cathode Composite for Advanced Li□S Batteries. *Advanced Functional Materials*, **2018**, 28, 1804777	15.6	33
46	Improving scale invariant feature transform with local color contrastive descriptor for image classification. *Journal of Electronic Imaging*, **2017**, 26, 013015	0.7	4
45	Knowledge Guided Disambiguation for Large-Scale Scene Classification With Multi-Resolution CNNs. *IEEE Transactions on Image Processing*, **2017**, 26, 2055-2068	8.7	80
44	Boosting the Cycle Life of Li□O2 Batteries at Elevated Temperature by Employing a Hybrid Polymer□Ceramic Solid Electrolyte. *ACS Energy Letters*, **2017**, 2, 1378-1384	20.1	49

43	A reversible lithium–CO2 battery with Ru nanoparticles as a cathode catalyst. *Energy and Environmental Science*, **2017**, 10, 972-978	35.4	201
42	From O to HO : Reducing By-Products and Overpotential in Li-O Batteries by Water Addition. *Angewandte Chemie - International Edition*, **2017**, 56, 4960-4964	16.4	107
41	From O2 to HO2 : Reducing By-Products and Overpotential in Li-O2 Batteries by Water Addition. *Angewandte Chemie*, **2017**, 129, 5042-5046	3.6	20
40	NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results **2017**,		322
39	Unraveling the Complex Role of Iodide Additives in Li–O2 Batteries. *ACS Energy Letters*, **2017**, 2, 1869-1878	20.1	72
38	Li-CO2 Electrochemistry: A New Strategy for CO2 Fixation and Energy Storage. *Joule*, **2017**, 1, 359-370	27.8	207
37	A Super-Hydrophobic Quasi-Solid Electrolyte for Li-O2 Battery with Improved Safety and Cycle Life in Humid Atmosphere. *Advanced Energy Materials*, **2017**, 7, 1601759	21.8	95
36	Locally Supervised Deep Hybrid Model for Scene Recognition. *IEEE Transactions on Image Processing* , **2017**, 26, 808-820	8.7	48
35	Single Shot Text Detector with Regional Attention **2017**,		155
34	Organic hydrogen peroxide-driven low charge potentials for high-performance lithium-oxygen batteries with carbon cathodes. *Nature Communications*, **2017**, 8, 15607	17.4	49
33	Joint Face Detection and Alignment Using Multitask Cascaded Convolutional Networks. *IEEE Signal Processing Letters*, **2016**, 23, 1499-1503	3.2	1940
32	MoFAP: A Multi-level Representation for Action Recognition. *International Journal of Computer Vision*, **2016**, 119, 254-271	10.6	76
31	Spectroscopic Investigation for Oxygen Reduction and Evolution Reactions with Tetrathiafulvalene as a Redox Mediator in Li–O2 Battery. *Journal of Physical Chemistry C*, **2016**, 120, 15830-15845	3.8	67
30	A Key Volume Mining Deep Framework for Action Recognition **2016**,		130
29	Real-Time Action Recognition with Enhanced Motion Vector CNNs **2016**,		156
28	Latent Factor Guided Convolutional Neural Networks for Age-Invariant Face Recognition **2016**,		65
27	Spectroscopic Investigation for Oxygen Reduction and Evolution Reactions on Carbon Electrodes in Li–O2 Battery. *Journal of Physical Chemistry C*, **2016**, 120, 8033-8047	3.8	41
26	Adaptive Part-Level Model Knowledge Transfer for Gender Classification. *IEEE Signal Processing Letters*, **2016**, 23, 888-892	3.2	2

25	Bag of visual words and fusion methods for action recognition: Comprehensive study and good practice. *Computer Vision and Image Understanding*, **2016**, 150, 109-125	4.3	337
24	Temporal Segment Networks: Towards Good Practices for Deep Action Recognition. *Lecture Notes in Computer Science*, **2016**, 20-36	0.9	809
23	A Discriminative Feature Learning Approach for Deep Face Recognition. *Lecture Notes in Computer Science*, **2016**, 499-515	0.9	844
22	Better Exploiting OS-CNNs for Better Event Recognition in Images **2015**,		9
21	**2015**,		586
20	Object-Scene Convolutional Neural Networks for event recognition in images **2015**,		43
19	Latent Hierarchical Model of Temporal Structure for Complex Activity Classification. *IEEE Transactions on Image Processing*, **2014**, 23, 810-22	8.7	78
18	Common feature discriminant analysis for matching infrared face images to optical face images. *IEEE Transactions on Image Processing*, **2014**, 23, 2436-45	8.7	23
17	Multi-view Super Vector for Action Recognition **2014**,		111
16	Pairwise Rotation Invariant Co-Occurrence Local Binary Pattern. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2014**, 36, 2199-213	13.3	188
15	Synthesis and electrochemical properties of porous double-shelled Mn2O3 hollow microspheres as a superior anode material for lithium ion batteries. *Electrochimica Acta*, **2014**, 132, 323-331	6.7	37
14	Video Action Detection with Relational Dynamic-Poselets. *Lecture Notes in Computer Science*, **2014**, 565-580	0.9	42
13	Synthesis and electrochemical properties of high performance yolk-structured LiMn2O4 microspheres for lithium ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 860-867	13	31
12	Mining Motion Atoms and Phrases for Complex Action Recognition **2013**,		46
11	Motionlets: Mid-level 3D Parts for Human Motion Recognition **2013**,		111
10	Unsupervised optimal phoneme segmentation: theory and experimental evaluation. *IET Signal Processing*, **2013**, 7, 577-586	1.7	33
9	Three-dimensional porous Fe0.1V2O5.15 thin film as a cathode material for lithium ion batteries. *Electrochimica Acta*, **2012**, 64, 81-86	6.7	36
8	Electrostatic spray deposition of porous Fe2V4O13 films as electrodes for Li-ion batteries. *Journal of Alloys and Compounds*, **2012**, 520, 77-82	5.7	20

7	Facile synthesis of micrometer Li1.05Mn1.95O4 and its low temperature performance for high power lithium ion batteries. *Electrochimica Acta*, **2012**, 81, 191-196	6.7	15
6	A facile route to synthesize nano-MnO/C composites and their application in lithium ion batteries. *Chemical Engineering Journal*, **2012**, 192, 226-231	14.7	48
5	A Study on Invariance of f-Divergence and Its Application to Speech Recognition. *IEEE Transactions on Signal Processing*, **2010**, 58, 3884-3890	4.8	27
4	Face recognition based on gradient gabor feature and Efficient Kernel Fisher analysis. *Neural Computing and Applications*, **2010**, 19, 617-623	4.8	18
3	A theory of phase singularities for image representation and its applications to object tracking and image matching. *IEEE Transactions on Image Processing*, **2009**, 18, 2153-66	8.7	18
2	A study on Hidden Structural Model and its application to labeling sequences **2009**,		3
1	An empirical study on temporal modeling for online action detection. *Complex & Intelligent Systems*,1	7.1	2