

Jian Sun

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

115,319
citations

218677

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h-index

138484

58
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67
all docs

67
docs citations

67
times ranked

65360
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Deep Residual Learning for Image Recognition. , 2016, , . | | 100,885 |
| 2 | Delving Deep into Rectifiers: Surpassing Human-Level Performance on ImageNet Classification. , 2015, , . | | 9,828 |
| 3 | Guided Image Filtering. Lecture Notes in Computer Science, 2010, , 1-14. | 1.3 | 819 |
| 4 | Lazy snapping. ACM Transactions on Graphics, 2004, 23, 303-308. | 7.2 | 807 |
| 5 | ADMM-CSNet: A Deep Learning Approach for Image Compressive Sensing. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 521-538. | 13.9 | 439 |
| 6 | Gradient Profile Prior and Its Applications in Image Super-Resolution and Enhancement. IEEE Transactions on Image Processing, 2011, 20, 1529-1542. | 9.8 | 285 |
| 7 | Proximal Dehaze-Net: A Prior Learning-Based Deep Network for Single Image Dehazing. Lecture Notes in Computer Science, 2018, , 729-746. | 1.3 | 184 |
| 8 | Multimodal 2D+3D Facial Expression Recognition With Deep Fusion Convolutional Neural Network. IEEE Transactions on Multimedia, 2017, 19, 2816-2831. | 7.2 | 160 |
| 9 | Atmospheric levels and cytotoxicity of polycyclic aromatic hydrocarbons and oxygenated-PAHs in PM2.5 in the Beijing-Tianjin-Hebei region. Environmental Pollution, 2017, 231, 1075-1084. | 7.5 | 119 |
| 10 | BM3D-Net: A Convolutional Neural Network for Transform-Domain Collaborative Filtering. IEEE Signal Processing Letters, 2018, 25, 55-59. | 3.6 | 117 |
| 11 | A Graph-Based Semisupervised Deep Learning Model for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2116-2132. | 6.3 | 109 |
| 12 | Chemical profiles of urban fugitive dust PM2.5 samples in Northern Chinese cities. Science of the Total Environment, 2016, 569-570, 619-626. | 8.0 | 104 |
| 13 | Optimizing a Parameterized Plug-and-Play ADMM for Iterative Low-Dose CT Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 371-382. | 8.9 | 101 |
| 14 | Learning Discriminative Part Detectors for Image Classification and Cosegmentation. , 2013, , . | | 92 |
| 15 | Unpaired Brain MR-to-CT Synthesis Using a Structure-Constrained CycleGAN. Lecture Notes in Computer Science, 2018, , 174-182. | 1.3 | 86 |
| 16 | Model-driven deep-learning. National Science Review, 2018, 5, 22-24. | 9.5 | 84 |
| 17 | Unsupervised MR-to-CT Synthesis Using Structure-Constrained CycleGAN. IEEE Transactions on Medical Imaging, 2020, 39, 4249-4261. | 8.9 | 79 |
| 18 | Investigation of Primary and Secondary Particulate Brown Carbon in Two Chinese Cities of Xi'an and Hong Kong in Wintertime. Environmental Science & Technology, 2020, 54, 3803-3813. | 10.0 | 63 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Sustainable ex-situ remediation of contaminated sediment: A review. <i>Environmental Pollution</i> , 2021, 287, 117333. | 7.5 | 58 |
| 20 | Optical source profiles of brown carbon in size-resolved particulate matter from typical domestic biofuel burning over Guanzhong Plain, China. <i>Science of the Total Environment</i> , 2018, 622-623, 244-251. | 8.0 | 56 |
| 21 | Parent, alkylated, oxygenated and nitrated polycyclic aromatic hydrocarbons in PM2.5 emitted from residential biomass burning and coal combustion: A novel database of 14 heating scenarios. <i>Environmental Pollution</i> , 2021, 268, 115881. | 7.5 | 52 |
| 22 | Emission factors, characteristics, and gas-particle partitioning of polycyclic aromatic hydrocarbons in PM2.5 emitted for the typical solid fuel combustions in rural Guanzhong Plain, China. <i>Environmental Pollution</i> , 2021, 286, 117573. | 7.5 | 48 |
| 23 | Flash Cut: Foreground Extraction with Flash and No-flash Image Pairs. , 2007, , . | | 47 |
| 24 | Volatile organic compounds emissions from traditional and clean domestic heating appliances in Guanzhong Plain, China: Emission factors, source profiles, and effects on regional air quality. <i>Environment International</i> , 2019, 133, 105252. | 10.0 | 41 |
| 25 | Source, health risk and composition impact of outdoor very fine particles (VFPs) to school indoor environment in Xi'an, Northwestern China. <i>Science of the Total Environment</i> , 2018, 612, 238-246. | 8.0 | 36 |
| 26 | Parent, alkylated, oxygenated and nitro polycyclic aromatic hydrocarbons from raw coal chunks and clean coal combustion: Emission factors, source profiles, and health risks. <i>Science of the Total Environment</i> , 2020, 721, 137696. | 8.0 | 35 |
| 27 | Training Networks in Null Space of Feature Covariance for Continual Learning. , 2021, , . | | 34 |
| 28 | Particle size distribution and air pollution patterns in three urban environments in Xi'an, China. <i>Environmental Geochemistry and Health</i> , 2015, 37, 801-812. | 3.4 | 31 |
| 29 | Personal exposure to PM2.5-bound organic species from domestic solid fuel combustion in rural Guanzhong Basin, China: Characteristics and health implication. <i>Chemosphere</i> , 2019, 227, 53-62. | 8.2 | 31 |
| 30 | The oxidative capacity of indoor source combustion derived particulate matter and resulting respiratory toxicity. <i>Science of the Total Environment</i> , 2021, 767, 144391. | 8.0 | 31 |
| 31 | Cytotoxicity of stabilized/solidified municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022, 424, 127369. | 12.4 | 29 |
| 32 | Light absorption properties and molecular profiles of HULIS in PM2.5 emitted from biomass burning in traditional "Heated Kang" in Northwest China. <i>Science of the Total Environment</i> , 2021, 776, 146014. | 8.0 | 27 |
| 33 | Indoor secondary organic aerosols formation from ozonolysis of monoterpene: An example of d-limonene with ammonia and potential impacts on pulmonary inflammations. <i>Science of the Total Environment</i> , 2017, 579, 212-220. | 8.0 | 26 |
| 34 | Effects of domestic solid fuel combustion emissions on the biomarkers of homemakers in rural areas of the Fenwei Plain, China. <i>Ecotoxicology and Environmental Safety</i> , 2021, 214, 112104. | 6.0 | 26 |
| 35 | Neural multi-atlas label fusion: Application to cardiac MR images. <i>Medical Image Analysis</i> , 2018, 49, 60-75. | 11.6 | 25 |
| 36 | Characterization of polycyclic aromatic hydrocarbon (PAHs) source profiles in urban PM2.5 fugitive dust: A large-scale study for 20 Chinese cities. <i>Science of the Total Environment</i> , 2019, 687, 188-197. | 8.0 | 25 |

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|----|--|------|-----------|
| 37 | Characteristics and source apportionment of winter black carbon aerosols in two Chinese megacities of Xi'an and Hong Kong. <i>Environmental Science and Pollution Research</i> , 2018, 25, 33783-33793. | 5.3 | 24 |
| 38 | Environmental and health risks of VOCs in the longest inner-city tunnel in Xi'an, Northwest China: Implication of impact from new energy vehicles. <i>Environmental Pollution</i> , 2021, 282, 117057. | 7.5 | 23 |
| 39 | Learning Dictionary of Discriminative Part Detectors for Image Categorization and Cosegmentation. <i>International Journal of Computer Vision</i> , 2016, 120, 111-133. | 15.6 | 21 |
| 40 | Unsupervised Domain Adaptation with Regularized Optimal Transport for Multimodal 2D+3D Facial Expression Recognition. , 2018, , . | | 20 |
| 41 | Explorations of tire and road wear microplastics in road dust PM _{2.5} at eight megacities in China. <i>Science of the Total Environment</i> , 2022, 823, 153717. | 8.0 | 20 |
| 42 | Cytotoxicity and Potential Pathway to Vascular Smooth Muscle Cells Induced by PM _{2.5} Emitted from Raw Coal Chunks and Clean Coal Combustion. <i>Environmental Science & Technology</i> , 2020, 54, 14482-14493. | 10.0 | 19 |
| 43 | Oxidative stress-inducing effects of various urban PM _{2.5} road dust on human lung epithelial cells among 10 Chinese megacities. <i>Ecotoxicology and Environmental Safety</i> , 2021, 224, 112680. | 6.0 | 16 |
| 44 | Joint Depth and Defocus Estimation From a Single Image Using Physical Consistency. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 3419-3433. | 9.8 | 15 |
| 45 | Characterization of organic aerosols in PM ₁ and their cytotoxicity in an urban roadside area in Hong Kong. <i>Chemosphere</i> , 2021, 263, 128239. | 8.2 | 13 |
| 46 | Variations of Personal Exposure to Particulate Nitrated Phenols from Heating Energy Renovation in China: The First Assessment on Associated Toxicological Impacts with Particle Size Distributions. <i>Environmental Science & Technology</i> , 2022, 56, 3974-3983. | 10.0 | 12 |
| 47 | Scale selection for anisotropic diffusion filter by Markov random field model. <i>Pattern Recognition</i> , 2010, 43, 2630-2645. | 8.1 | 11 |
| 48 | Size distribution, community composition, and influencing factors of bioaerosols on haze and non-haze days in a megacity in Northwest China. <i>Science of the Total Environment</i> , 2022, 838, 155969. | 8.0 | 11 |
| 49 | A Model-Driven Deep Dehazing Approach by Learning Deep Priors. <i>IEEE Access</i> , 2021, 9, 108542-108556. | 4.2 | 10 |
| 50 | Aerosols chemical composition, light extinction, and source apportionment near a desert margin city, Yulin, China. <i>PeerJ</i> , 2020, 8, e8447. | 2.0 | 9 |
| 51 | Source profiles of molecular structure and light absorption of PM _{2.5} brown carbon from residential coal combustion emission in Northwestern China. <i>Environmental Pollution</i> , 2022, 299, 118866. | 7.5 | 9 |
| 52 | Saccharides Emissions from Biomass and Coal Burning in Northwest China and Their Application in Source Contribution Estimation. <i>Atmosphere</i> , 2021, 12, 821. | 2.3 | 8 |
| 53 | Profiles and Source Apportionment of Nonmethane Volatile Organic Compounds in Winter and Summer in Xi'an, China, based on the Hybrid Environmental Receptor Model. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 116-131. | 4.3 | 8 |
| 54 | Evaluation on exposures to particulate matter at a junior secondary school: a comprehensive study on health risks and effective inflammatory responses in Northwestern China. <i>Environmental Geochemistry and Health</i> , 2018, 40, 849-863. | 3.4 | 7 |

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|----|---|------|-----------|
| 55 | Loss of E-cadherin due to road dust PM2.5 activates the EGFR in human pharyngeal epithelial cells. Environmental Science and Pollution Research, 2021, 28, 53872-53887. | 5.3 | 7 |
| 56 | X-ray pulsar navigation using multiple detectors based on a new observation strategy. IET Radar, Sonar and Navigation, 2018, 12, 442-448. | 1.8 | 6 |
| 57 | Second-Order Spectral Transform Block for 3D Shape Classification and Retrieval. IEEE Transactions on Image Processing, 2020, 29, 4530-4543. | 9.8 | 6 |
| 58 | An Improved 3D Shape Recognition Method Based on Panoramic View. Mathematical Problems in Engineering, 2018, 2018, 1-11. | 1.1 | 5 |
| 59 | Pulsar/Star Tracker/INS Integrated Navigation Method Based on Asynchronous Observation Model. Journal of Aerospace Engineering, 2019, 32, 04019075. | 1.4 | 5 |
| 60 | Spatial Distribution, Source Apportionment, Ozone Formation Potential, and Health Risks of Volatile Organic Compounds over a Typical Central Plain City in China. Atmosphere, 2020, 11, 1365. | 2.3 | 5 |
| 61 | Learning Distribution Independent Latent Representation for 3D Face Disentanglement. , 2020, , . | | 3 |
| 62 | Real-time chemical composition of ambient fine aerosols and related cytotoxic effects in human lung epithelial cells in an urban area. Environmental Research, 2022, 209, 112792. | 7.5 | 3 |
| 63 | Data Acquisition Method of Sensor News Based on Collaborative Filtering Algorithm. Wireless Communications and Mobile Computing, 2022, 2022, 1-9. | 1.2 | 2 |
| 64 | Variational HyperAdam: A Meta-learning Approach to Network Training. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1. | 13.9 | 1 |
| 65 | PM2.5 causes vascular hyperreactivity through the upregulation of the thromboxane A2 receptor and activation of MAPK pathways. Environmental Science and Pollution Research, 2022, , 1. | 5.3 | 1 |
| 66 | Learning Polynomial-Based Separable Convolution for 3D Point Cloud Analysis. Sensors, 2021, 21, 4211. | 3.8 | 0 |
| 67 | An Interpretable Early Dynamic Sequential Predictor for Sepsis-Induced Coagulopathy Progression in the Real-World Using Machine Learning. Frontiers in Medicine, 2021, 8, 775047. | 2.6 | 0 |