

Yong Yan

List of Publications by Year in descending order

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242
papers

10,051
citations

41258

49
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39575

94
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244
all docs

244
docs citations

244
times ranked

12078
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Driven Heterogeneous Reduction of Carbon Dioxide: Photocatalysts and Photoelectrodes. <i>Chemical Reviews</i> , 2015, 115, 12888-12935.	23.0	1,386
2	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
3	Low surface recombination velocity in solution-grown CH ₃ NH ₃ PbBr ₃ perovskite single crystal. <i>Nature Communications</i> , 2015, 6, 7961.	5.8	406
4	Top and bottom surfaces limit carrier lifetime in lead iodide perovskite films. <i>Nature Energy</i> , 2017, 2, .	19.8	376
5	Production and catalytic transformation of levulinic acid: A platform for speciality chemicals and fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 986-997.	8.2	291
6	Lead halide perovskites for photocatalytic organic synthesis. <i>Nature Communications</i> , 2019, 10, 2843.	5.8	263
7	Lead-Halide Perovskites for Photocatalytic α -Alkylation of Aldehydes. <i>Journal of the American Chemical Society</i> , 2019, 141, 733-738.	6.6	263
8	Mass flow measurement of bulk solids in pneumatic pipelines. <i>Measurement Science and Technology</i> , 1996, 7, 1687-1706.	1.4	261
9	Water reduction by a p-GaN/P2 photoelectrode stabilized by an amorphous TiO ₂ coating and a molecular cobalt catalyst. <i>Nature Materials</i> , 2016, 15, 456-460.	13.3	215
10	Multiple exciton generation for photoelectrochemical hydrogen evolution reactions with quantum yields exceeding 100%. <i>Nature Energy</i> , 2017, 2, .	19.8	172
11	Electrochemistry of Aqueous Pyridinium: Exploration of a Key Aspect of Electrocatalytic Reduction of CO ₂ to Methanol. <i>Journal of the American Chemical Society</i> , 2013, 135, 14020-14023.	6.6	152
12	Electronic Structure and Optical Properties of α -CH ₃ NH ₃ PbBr ₃ Perovskite Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4304-4308.	2.1	136
13	Exfoliated 2D Transition Metal Disulfides for Enhanced Electrocatalysis of Oxygen Evolution Reaction in Acidic Medium. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500669.	1.9	136
14	<i>p</i> -Type CuRhO ₂ as a Self-Healing Photoelectrode for Water Reduction under Visible Light. <i>Journal of the American Chemical Society</i> , 2014, 136, 830-833.	6.6	135
15	A graded catalytic "protective layer for an efficient and stable water-splitting photocathode. <i>Nature Energy</i> , 2017, 2, .	19.8	135
16	Impact of co-firing coal and biomass on flame characteristics and stability. <i>Fuel</i> , 2008, 87, 1133-1140.	3.4	122
17	An Autoadaptive Edge-Detection Algorithm for Flame and Fire Image Processing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012, 61, 1486-1493.	2.4	115
18	Nanoscale simultaneous chemical and mechanical imaging via peak force infrared microscopy. <i>Science Advances</i> , 2017, 3, e1700255.	4.7	115

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19	Space-Confined Earth-Abundant Bifunctional Electrocatalyst for High-Efficiency Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36762-36771.	4.0	114
20	Three-dimensional reconstruction of flame temperature and emissivity distribution using optical tomographic and two-colour pyrometric techniques. Measurement Science and Technology, 2013, 24, 074010.	1.4	103
21	On-line flicker measurement of gaseous flames by image processing and spectral analysis. Measurement Science and Technology, 1999, 10, 726-733.	1.4	100
22	A Digital Imaging Based Multifunctional Flame Monitoring System. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1152-1158.	2.4	100
23	Hilbert-Huang transform based signal analysis for the characterization of gas-liquid two-phase flow. Flow Measurement and Instrumentation, 2007, 18, 37-46.	1.0	100
24	Characterisation of biomass and coal co-firing on a 3MWth Combustion Test Facility using flame imaging and gas/ash sampling techniques. Fuel, 2009, 88, 2328-2334.	3.4	96
25	A wavelet-based approach to abrupt fault detection and diagnosis of sensors. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 1389-1396.	2.4	92
26	Three-Dimensional Temperature Measurement of Combustion Flames Using a Single Monochromatic CCD Camera. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1417-1421.	2.4	92
27	Characterisation of an oxy-coal flame through digital imaging. Combustion and Flame, 2010, 157, 1132-1139.	2.8	89
28	Optical Fiber Imaging Based Tomographic Reconstruction of Burner Flames. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1417-1425.	2.4	89
29	Concurrent measurement of temperature and soot concentration of pulverized coal flames. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 990-995.	2.4	87
30	Air-water two-phase flow measurement using a Venturi meter and an electrical resistance tomography sensor. Flow Measurement and Instrumentation, 2010, 21, 268-276.	1.0	86
31	Pulverized coal flow metering on a full-scale power plant using electrostatic sensor arrays. Flow Measurement and Instrumentation, 2014, 40, 185-191.	1.0	85
32	Recent Progress in Engineering Metal Halide Perovskites for Efficient Visible-Light-Driven Photocatalysis. ChemSusChem, 2020, 13, 4005-4025.	3.6	79
33	Experimental investigations into the flow characteristics of pneumatically conveyed biomass particles using an electrostatic sensor array. Fuel, 2015, 151, 11-20.	3.4	69
34	Assembly of g-C ₃ N ₄ -based type II and Z-scheme heterojunction anodes with improved charge separation for photoelectrojunction water oxidation. Physical Chemistry Chemical Physics, 2017, 19, 4507-4515.	1.3	67
35	Three-Dimensional Tomographic Reconstruction of the Luminosity Distribution of a Combustion Flame. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1300-1306.	2.4	66
36	Finite-Element Modeling of Electrostatic Sensors for the Flow Measurement of Particles in Pneumatic Pipelines. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2730-2736.	2.4	64

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37	Velocity Measurement of Pneumatically Conveyed Particles Using Intrusive Electrostatic Sensors. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1477-1484.	2.4	61
38	Ultrafast Reaction Mechanisms in Perovskite Based Photocatalytic C-C Coupling. ACS Energy Letters, 2020, 5, 566-571.	8.8	61
39	A Wavelet-Based Multisensor Data Fusion Algorithm. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1539-1545.	2.4	59
40	Temperature Profiling of Pulverized Coal Flames Using Multicolor Pyrometric and Digital Imaging Techniques. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1303-1308.	2.4	56
41	Monoanionic Molybdenum and Tungsten Tris(dithiolene) Complexes: A Multifrequency EPR Study. Inorganic Chemistry, 2011, 50, 7106-7122.	1.9	55
42	Investigations into the ignition behaviors of pulverized coals and coal blends in a drop tube furnace using flame monitoring techniques. Fuel, 2010, 89, 743-751.	3.4	54
43	On-line continuous measurement of particle size using electrostatic sensors. Powder Technology, 2003, 135-136, 164-168.	2.1	53
44	Mass Flow Measurement of Fine Particles in a Pneumatic Suspension Using Electrostatic Sensing and Neural Network Techniques. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2330-2334.	2.4	53
45	Recent Advances in Flame Tomography. Chinese Journal of Chemical Engineering, 2012, 20, 389-399.	1.7	53
46	Rotational Speed Measurement Through Electrostatic Sensing and Correlation Signal Processing. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1190-1199.	2.4	53
47	Plasmon-Enhanced Layered Double Hydroxide Composite BiVO ₄ Photoanodes: Layering-Dependent Modulation of the Water-Oxidation Reaction. ACS Applied Energy Materials, 2018, 1, 3577-3586.	2.5	52
48	Enhanced photoredox activity of CsPbBr ₃ nanocrystals by quantitative colloidal ligand exchange. Journal of Chemical Physics, 2019, 151, 204305.	1.2	52
49	Flow Measurement of Biomass and Blended Biomass Fuels in Pneumatic Conveying Pipelines Using Electrostatic Sensor-Arrays. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1343-1352.	2.4	51
50	Investigation of two-phase flow mixing mechanism of a swirl burner using an electrostatic sensor array system. Flow Measurement and Instrumentation, 2013, 32, 14-26.	1.0	50
51	Characterization of electrostatic sensors for flow measurement of particulate solids in square-shaped pneumatic conveying pipelines. Sensors and Actuators A: Physical, 2008, 141, 59-67.	2.0	49
52	Monitoring of Oscillatory Characteristics of Pulverized Coal Flames Through Image Processing and Spectral Analysis. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 226-231.	2.4	47
53	A Nanocrystal Catalyst Incorporating a Surface Bound Transition Metal to Induce Photocatalytic Sequential Electron Transfer Events. Journal of the American Chemical Society, 2021, 143, 11361-11369.	6.6	47
54	Sensing field homogeneity in mass flow rate measurement of pneumatically conveyed solids. Flow Measurement and Instrumentation, 1995, 6, 115-119.	1.0	41

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55	Computational Studies on Response and Binding Selectivity of Fluorescence Sensors. Journal of Physical Chemistry B, 2010, 114, 870-876.	1.2	41
56	Quantitative Assessment of Upper Limb Motion in Neurorehabilitation Utilizing Inertial Sensors. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 232-243.	2.7	41
57	An integrated multi-channel electrostatic sensing and digital imaging system for the on-line measurement of biomass coal particles in fuel injection pipelines. Fuel, 2015, 151, 2-10.	3.4	39
58	Photoredox Organic Synthesis Employing Heterogeneous Photocatalysts with Emphasis on Halide Perovskite. Chemistry - A European Journal, 2020, 26, 13118-13136.	1.7	39
59	Support vector machine based online coal identification through advanced flame monitoring. Fuel, 2014, 117, 944-951.	3.4	37
60	On-line measurement of particle size distribution and mass flow rate of particles in a pneumatic suspension using combined imaging and electrostatic sensors. Flow Measurement and Instrumentation, 2005, 16, 309-314.	1.0	35
61	Flame stability monitoring and characterization through digital imaging and spectral analysis. Measurement Science and Technology, 2011, 22, 114007.	1.4	35
62	On-line Nonintrusive Measurement of Particle Size Distribution Through Digital Imaging. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 2034-2038.	2.4	34
63	Studies on combustion behaviours of single biomass particles using a visualization method. Biomass and Bioenergy, 2018, 109, 54-60.	2.9	33
64	On-Line Fuel Identification Using Digital Signal Processing and Fuzzy Inference Techniques. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1316-1320.	2.4	30
65	An Instrumentation System Using Combined Sensing Strategies for Online Mass Flow Rate Measurement and Particle Sizing. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1433-1437.	2.4	30
66	A Specific Data Acquisition Scheme for Electrical Tomography. , 2008, , .		30
67	Profiling and Characterization of Flame Radicals by Combining Spectroscopic Imaging and Neural Network Techniques. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1854-1860.	2.4	30
68	On-line measurement of particle size and shape distributions of pneumatically conveyed particles through multi-wavelength based digital imaging. Flow Measurement and Instrumentation, 2012, 27, 20-28.	1.0	29
69	Quantitative characterization of pulverized coal and biomass coal blends in pneumatic conveying pipelines using electrostatic sensor arrays and data fusion techniques. Measurement Science and Technology, 2012, 23, 085307.	1.4	29
70	Concentration measurement of biomass/coal/air three-phase flow by integrating electrostatic and capacitive sensors. Flow Measurement and Instrumentation, 2012, 24, 43-49.	1.0	28
71	The influence of ligand localized excited states on the photophysics of second row and third row transition metal terpyridyl complexes: Recent examples and a case study. Coordination Chemistry Reviews, 2015, 282-283, 100-109.	9.5	28
72	A calculable sensor for electrical impedance tomography. Sensors and Actuators A: Physical, 2007, 140, 156-161.	2.0	27

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73	Evaluation of redox-responsive disulfide cross-linked poly(hydroxyethyl methacrylate) hydrogels. <i>Polymer</i> , 2011, 52, 5262-5270.	1.8	27
74	A persuasive feedback support system for energy conservation and carbon emission reduction in campus residential buildings. <i>Energy and Buildings</i> , 2014, 82, 719-732.	3.1	27
75	On-line Sizing of Pneumatically Conveyed Particles Through Acoustic Emission Detection and Signal Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1100-1109.	2.4	27
76	Fe ₂ PO ₅ Encapsulated Reverse Energetic ZnO/Fe ₂ O ₃ Heterojunction Nanowire for Enhanced Photoelectrochemical Oxidation of Water. <i>ChemSusChem</i> , 2017, 10, 2796-2804.	3.6	27
77	Combustion behavior profiling of single pulverized coal particles in a drop tube furnace through high-speed imaging and image analysis. <i>Experimental Thermal and Fluid Science</i> , 2017, 85, 322-330.	1.5	27
78	Online prediction of biomass moisture content in a fluidized bed dryer using electrostatic sensor arrays and the Random Forest method. <i>Fuel</i> , 2019, 239, 437-445.	3.4	27
79	Integrating persuasive technology with energy delegates for energy conservation and carbon emission reduction in a university campus. <i>Energy</i> , 2014, 76, 357-374.	4.5	26
80	Structure-Function Relationships for Electrocatalytic Water Oxidation by Molecular [Mn ₁₂ O ₁₂] Clusters. <i>Inorganic Chemistry</i> , 2015, 54, 4550-4555.	1.9	26
81	An integrated ECT/ERT dual modality sensor. , 2009, , .		25
82	Redox-Controlled Interconversion between Trigonal Prismatic and Octahedral Geometries in a Monodithiolene Tetracarbonyl Complex of Tungsten. <i>Inorganic Chemistry</i> , 2012, 51, 346-361.	1.9	25
83	Localization of Multiple Leak Sources Using Acoustic Emission Sensors Based on MUSIC Algorithm and Wavelet Packet Analysis. <i>IEEE Sensors Journal</i> , 2018, 18, 9812-9820.	2.4	25
84	Hydrogen Bonded Pyridine Dimer: A Possible Intermediate in the Electrocatalytic Reduction of Carbon Dioxide to Methanol. <i>Aerosol and Air Quality Research</i> , 2014, 14, 515-521.	0.9	25
85	Ancillary Ligand Effects upon Dithiolene Redox Noninnocence in Tungsten Bis(dithiolene) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 6743-6751.	1.9	24
86	Wavelet-based removal of sinusoidal interference from a signal. <i>Measurement Science and Technology</i> , 2004, 15, 1779-1786.	1.4	23
87	Online Fuel Tracking by Combining Principal Component Analysis and Neural Network Techniques. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2005, 54, 1640-1645.	2.4	23
88	Condition Monitoring of Combustion Processes Through Flame Imaging and Kernel Principal Component Analysis. <i>Combustion Science and Technology</i> , 2013, 185, 1400-1413.	1.2	23
89	Rotational Speed Measurement Using Single and Dual Electrostatic Sensors. <i>IEEE Sensors Journal</i> , 2014, , 1-1.	2.4	23
90	Measurement of Flow Characteristics in a Bubbling Fluidized Bed Using Electrostatic Sensor Arrays. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 703-712.	2.4	23

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91	Non-Contact Vibration Monitoring of Power Transmission Belts Through Electrostatic Sensing. IEEE Sensors Journal, 2016, 16, 3541-3550.	2.4	22
92	A Smart Electrostatic Sensor for Online Condition Monitoring of Power Transmission Belts. IEEE Transactions on Industrial Electronics, 2017, 64, 7313-7322.	5.2	22
93	Digital Imaging Based Measurement of Diesel Spray Characteristics. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2067-2073.	2.4	21
94	Non-contact strip speed measurement using electrostatic sensing and correlation signal-processing techniques. Measurement Science and Technology, 2011, 22, 075103.	1.4	21
95	An Improved Algorithm for the Measurement of Flame Oscillation Frequency. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2087-2093.	2.4	20
96	Spatial Selectivity of Linear Electrostatic Sensor Arrays for Particle Velocity Measurement. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 167-176.	2.4	20
97	On-line particle sizing of pneumatically conveyed biomass particles using piezoelectric sensors. Fuel, 2013, 113, 810-816.	3.4	20
98	Triplet Energy Transfer from Lead Halide Perovskite for Highly Selective Photocatalytic 2 + 2 Cycloaddition. ACS Applied Materials & Interfaces, 2022, 14, 25357-25365.	4.0	20
99	On-Line Nonintrusive Detection of Wood Pellets in Pneumatic Conveying Pipelines Using Vibration and Acoustic Sensors. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 993-1001.	2.4	19
100	Prediction of Pollutant Emissions of Biomass Flames Through Digital Imaging, Contourlet Transform, and Support Vector Regression Modeling. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2409-2416.	2.4	19
101	Measurement of Velocity and Concentration Profiles of Pneumatically Conveyed Particles Using an Electrostatic Sensor Array. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1139-1148.	2.4	19
102	Radiometric determination of dilute inhomogeneous solids loading in pneumatic conveying systems. Measurement Science and Technology, 1994, 5, 110-119.	1.4	18
103	Digital Imaging-Based Three-Dimensional Characterization of Flame Front Structures in a Turbulent Flame. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1073-1078.	2.4	18
104	Monitoring of particle motions in gas-solid fluidized beds by electrostatic sensors. Powder Technology, 2017, 308, 461-471.	2.1	18
105	Mathematical modelling and experimental validation of electrostatic sensors for rotational speed measurement. Measurement Science and Technology, 2014, 25, 115101.	1.4	17
106	Simultaneous Measurement of Belt Speed and Vibration Through Electrostatic Sensing and Data Fusion. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1130-1138.	2.4	17
107	Real-Time Imaging and Holdup Measurement of Carbon Dioxide Under CCS Conditions Using Electrical Capacitance Tomography. IEEE Sensors Journal, 2018, 18, 7551-7559.	2.4	17
108	A comparative study of induced and transferred charges for mass flow rate measurement of pneumatically conveyed particles. Powder Technology, 2019, 356, 715-725.	2.1	17

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109	Vibration Measurement of an Unbalanced Metallic Shaft Using Electrostatic Sensors. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1467-1476.	2.4	17
110	Measurement of velocity and concentration profiles of pneumatically conveyed particles in a square-shaped pipe using electrostatic sensor arrays. Powder Technology, 2021, 377, 693-708.	2.1	17
111	Separation of Gas-Liquid Two-Phase Flow Through Independent Component Analysis. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1294-1302.	2.4	16
112	Three-dimensional reconstruction of combustion flames through optical fiber sensing and CCD imaging. , 2011, , .		16
113	An improved capacitively coupled contactless conductivity detection sensor for industrial applications. Sensors and Actuators A: Physical, 2015, 235, 273-280.	2.0	16
114	Peak Force Infrared-Kelvin Probe Force Microscopy. Angewandte Chemie - International Edition, 2020, 59, 16083-16090.	7.2	16
115	Measurement of solids deposition in pneumatic conveying. Powder Technology, 1997, 91, 131-139.	2.1	15
116	A new nondestructive technique for measuring pressure in vessels by surface waves. Applied Acoustics, 2008, 69, 891-900.	1.7	15
117	Online continuous measurement of the size distribution of pneumatically conveyed particles by acoustic emission methods. Flow Measurement and Instrumentation, 2014, 40, 163-168.	1.0	15
118	Rotational Speed Measurement Through Image Similarity Evaluation and Spectral Analysis. IEEE Access, 2018, 6, 46718-46730.	2.6	15
119	Isotopic Probe Illuminates the Role of the Electrode Surface in Proton Coupled Hydride Transfer Electrochemical Reduction of Pyridinium on Pt(111). Journal of the Electrochemical Society, 2015, 162, H938-H944.	1.3	14
120	On-line size measurement of pneumatically conveyed particles through acoustic emission sensing. Powder Technology, 2019, 353, 195-201.	2.1	14
121	Assessing blockage of the sensing line in a differential-pressure flow sensor by using the wavelet transform of its output. Measurement Science and Technology, 2000, 11, 178-184.	1.4	13
122	A New Flame Monitor With Triple Photovoltaic Cells. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1416-1421.	2.4	13
123	Velocity measurement of pneumatically conveyed particles through digital imaging. Sensors and Actuators A: Physical, 2009, 149, 180-188.	2.0	13
124	On-line identification of biomass fuels based on flame radical imaging and application of radical basis function neural network techniques. IET Renewable Power Generation, 2015, 9, 323-330.	1.7	13
125	An instrumentation system using combined sensing strategies for on-line mass flow rate measurement and particle sizing. , 0, , .		12
126	A new edge detection algorithm for flame image processing. , 2011, , .		12

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127	Online particle size measurement through acoustic emission detection and signal analysis. , 2014, , .		12
128	On-line measurement of the size distribution of particles in a gasâ€“solid two-phase flow through acoustic sensing and advanced signal analysis. Flow Measurement and Instrumentation, 2014, 40, 169-177.	1.0	12
129	Monitoring of Oxygen Content in the Flue Gas at a Coal-Fired Power Plant Using Cloud Modeling Techniques. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 953-963.	2.4	12
130	Localization of CO ₂ Leakage from a Circular Hole on a Flat-Surface Structure Using a Circular Acoustic Emission Sensor Array. Sensors, 2016, 16, 1951.	2.1	12
131	Effects of agglomerates on electrostatic behaviors in gasâ€“solid fluidized beds. Powder Technology, 2016, 287, 139-151.	2.1	12
132	Low Cost Inertial Sensors for the Motion Tracking and Orientation Estimation of Human Upper Limbs in Neurological Rehabilitation. IEEE Access, 2020, 8, 54254-54268.	2.6	12
133	Calibration of an Averaging Pitot Tube for Gaseous CO ₂ Flowmetering. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1240-1249.	2.4	11
134	Detecting the Blockage of the Sensing Lines of a Differential-Pressure Flow Sensor in a Dynamic Process Using Wavelet Transform Techniques. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1443-1448.	2.4	10
135	Fast reconstruction of computerized tomography images based on the cross-entropy method. Flow Measurement and Instrumentation, 2011, 22, 295-302.	1.0	10
136	An optimization scheme for the measurement of liquid jet parameters with rainbow refractometry based on Debye theory. Optics Communications, 2013, 305, 204-211.	1.0	10
137	Design and implementation of an industrial C4D sensor for conductivity detection. Sensors and Actuators A: Physical, 2014, 213, 1-8.	2.0	10
138	Element Misidentification in X-ray Crystallography: A Reassessment of the [MCl ₂ (diazadiene)] (M = Cr, Mo, W) Series. Inorganic Chemistry, 2014, 53, 308-317.	1.9	10
139	Determination of nitrogen content in coal through UV Differential Optical Absorption Spectroscopy. Fuel, 2015, 151, 73-82.	3.4	10
140	Optimised design of intrusive electrostatic sensors for the velocity measurement of pneumatically conveyed particles. , 2009, , .		9
141	Measurement of soot temperature, emissivity and concentration of a heavy-oil flame through pyrometric imaging. , 2012, , .		9
142	Independent Component Analysisâ€“Based Fuel Type Identification for Coal-Fired Power Plants. Combustion Science and Technology, 2012, 184, 277-292.	1.2	9
143	A miniature, low-cost MEMS AHRS with application to posture control of robotic fish. , 2013, , .		9
144	Intelligent condition monitoring of rotating machinery through electrostatic sensing and signal analysis. , 2013, , .		9

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145	Unprecedented spin localisation in a metal-metal bonded dirhenium complex. Chemical Communications, 2015, 51, 5482-5485.	2.2	9
146	Mass-Flow-Rate Measurement of Pneumatically Conveyed Particles Through Acoustic Emission Detection and Electrostatic Sensing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	9
147	High-Resolution In-situ Synchrotron X-Ray Studies of Inorganic Perovskite CsPbBr ₃ : New Symmetry Assignments and Structural Phase Transitions. Advanced Science, 2021, 8, e2003046.	5.6	9
148	A Flame Imaging-Based Online Deep Learning Model for Predicting NO _x Emissions From an Oxy-Biomass Combustion Process. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	9
149	Contour-based image segmentation for on-line size distribution measurement of pneumatically conveyed particles. , 2011, , .		8
150	Simultaneous measurement of electrostatic charge and its effect on particle motions by electrostatic sensors array in gas-solid fluidized beds. Powder Technology, 2017, 312, 29-37.	2.1	8
151	Peak Force Infrared-Kelvin Probe Force Microscopy. Angewandte Chemie, 2020, 132, 16217-16224.	1.6	8
152	Experimental Investigations Into Bubble Characteristics in a Fluidized Bed Through Electrostatic Imaging. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	8
153	Mass Flow Rate Measurement of Pneumatically Conveyed Solids Through Multimodal Sensing and Data-Driven Modeling. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16.	2.4	8
154	Measurement of flame temperature distribution using optical tomographic and two-color pyrometric techniques. , 2012, , .		7
155	Three-dimensional reconstruction of flame temperature and emissivity through tomographic imaging and pyrometric measurement. , 2012, , .		7
156	A compendium of CO ₂ leakage detection and monitoring techniques in carbon capture and storage (CCS) pipelines. , 2013, , .		7
157	Prediction of pollutant emissions of biomass flames using digital imaging, contourlet transform and Radial Basis Function network techniques. , 2014, , .		7
158	An improved algorithm for the measurement of flame flicker frequency. , 0, , .		6
159	Continuous measurement of particulate emissions. IEEE Instrumentation and Measurement Magazine, 2005, 8, 35-39.	1.2	6
160	The Effect of Illumination Wavelength on the Measurement of Size Distribution of Very Small Particles Using a Novel Imaging Based System. Particle and Particle Systems Characterization, 2008, 25, 298-305.	1.2	6
161	An embedded imaging and signal processing system for flame stability monitoring and characterisation. , 2010, , .		6
162	A multi-parameter assessment tool for upper limb motion in neurorehabilitation. , 2011, , .		6

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163	Photoelectrocatalytic Reduction of Carbon Dioxide. , 2015, , 211-233.		6
164	Leakage detection of gaseous CO ₂ through thermal imaging. , 2015, , .		6
165	Homogenization of the Spatial Sensitivity of Electrostatic Sensors for the Flow Measurement of Pneumatically Conveyed Solids in a Square-Shaped Pipe. IEEE Sensors Journal, 2017, 17, 7516-7525.	2.4	6
166	Instantaneous Rotational Speed Measurement Using Image Correlation and Periodicity Determination Algorithms. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2924-2937.	2.4	6
167	An Evaluation Method for Reconstructed Images in Electrical Tomography. , 2008, , .		5
168	A spectroscopic imaging system for flame radical profiling. , 2010, , .		5
169	Spatial selectivity of linear electrostatic sensor arrays. , 2011, , .		5
170	Prediction of NO _x emissions through flame radical imaging and neural network based soft computing. , 2012, , .		5
171	On-line measurement of particle size distribution using piezoelectric sensors. , 2012, , .		5
172	A simple index based quantitative assessment of flame stability. , 2013, , .		5
173	Mathematical Modelling and Experimental Evaluation of Electrostatic Sensor Arrays for the Flow Measurement of Fine Particles in a Square-shaped Pipe. IEEE Sensors Journal, 2016, , 1-1.	2.4	5
174	An Improved Method for the Processing of Signals Contaminated With Strong Common-Mode Periodic Noise in Correlation Velocity Measurement. , 2019, 3, 1-4.		5
175	Comparative studies of electrostatic sensors with circular and rod electrodes for the velocity measurement of pulverized coal and biomass fuels. , 2009, , .		4
176	Tomographic imaging based measurement of three-dimensional geometric parameters of a burner flame. , 2014, , .		4
177	Measurement of flow parameters in a bubbling fluidized bed using electrostatic sensor arrays. , 2015, , .		4
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