Yong Yan

List of Publications by Year
in descending order

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242	10,051	41258	39575
papers	citations	49 h-index	94 g-index

244	244	244	12078
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Flame Imaging-Based Online Deep Learning Model for Predicting NOâ‚“ Emissions From an Oxy-Biomass Combustion Process. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	9
2	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
3	Image Security Retrieval Based on Chaotic Algorithm and Deep Learning. IEEE Access, 2022, 10, 67210-67218.	2.6	2
4	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
5	Flame Boundary Measurement Using an Electrostatic Sensor Array. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	3
6	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
7	Online Measurement of the Size Distribution of Pneumatically Conveyed Particles Through Acoustic Emission Detection and Triboelectric Sensing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-17.	2.4	1
8	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
9	Quantitative Shape Measurement of an Inflatable Rubber Dam Using an Array of Inertial Measurement Units. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	1
10	Investigations into the sensing mechanism of acoustic emission sensors for particle size measurement in a particular case: normal incidence. Measurement Science and Technology, 2021, 32, 075107.	1.4	1
11	Surface State Passivation Ignited Photoelectrochemical Sensing of Thallium(I) with Ultrathin In₂S₃ Nanosheets. ACS Applied Electronic Materials, 2021, 3, 2490-2496.	2.0	2
12	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
13	Highâ€Resolution Inâ€Situ Synchrotron Xâ€Ray Studies of Inorganic Perovskite CsPbBr₃: New Symmetry Assignments and Structural Phase Transitions. Advanced Science, 2021, 8, e2003046.	5.6	9
14	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
15	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
16	Early Detection of the Wear of Coriolis Flowmeters Through In Situ Stiffness Diagnosis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	1
17	Measurement of Charge Density in Methane Fired Diffusion and Premixed Flames Using Electrostatic Probes. IEEE Sensors Journal, 2021, 21, 26115-26123.	2.4	1
18	Characterisation of the combustion behaviours of individual pulverised coal particles entrained by air using image processing techniques. Measurement Science and Technology, 2021, 32, 034005.	1.4	2

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19	Instantaneous Rotational Speed Measurement Using Image Correlation and Periodicity Determination Algorithms. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2924-2937.	2.4	6
20	Frontispiece: Photoredox Organic Synthesis Employing Heterogeneous Photocatalysts with Emphasis on Halide Perovskite. Chemistry - A European Journal, 2020, 26, .	1.7	0
21	Recent Progress in Engineering Metal Halide Perovskites for Efficient Visibleâ€Lightâ€Driven Photocatalysis. ChemSusChem, 2020, 13, 4005-4025.	3.6	79
22	Peak Force Infraredâ€“Kelvin Probe Force Microscopy. Angewandte Chemie, 2020, 132, 16217-16224.	1.6	8
23	Peak Force Infraredâ€“Kelvin Probe Force Microscopy. Angewandte Chemie - International Edition, 2020, 59, 16083-16090.	7.2	16
24	Photoredox Organic Synthesis Employing Heterogeneous Photocatalysts with Emphasis on Halide Perovskite. Chemistry - A European Journal, 2020, 26, 13118-13136.	1.7	39
25	Ultrafast Reaction Mechanisms in Perovskite Based Photocatalytic Câ€“C Coupling. ACS Energy Letters, 2020, 5, 566-571.	8.8	61
26	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
27	Complex vibration analysis of railway vehicle with tread conicity variation. Nonlinear Dynamics, 2020, 100, 173-183.	2.7	4
28	An Improved Method for the Processing of Signals Contaminated With Strong Common-Mode Periodic Noise in Correlation Velocity Measurement. , 2019, 3, 1-4.		5
29	Lead halide perovskites for photocatalytic organic synthesis. Nature Communications, 2019, 10, 2843.	5.8	263
30	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
31	On-line size measurement of pneumatically conveyed particles through acoustic emission sensing. Powder Technology, 2019, 353, 195-201.	2.1	14
32	Vibration Measurement of an Unbalanced Metallic Shaft Using Electrostatic Sensors. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1467-1476.	2.4	17
33	Enhanced photoredox activity of CsPbBr3 nanocrystals by quantitative colloidal ligand exchange. Journal of Chemical Physics, 2019, 151, 204305.	1.2	52
34	Lead-Halide Perovskites for Photocatalytic Î±-Alkylation of Aldehydes. Journal of the American Chemical Society, 2019, 141, 733-738.	6.6	263
35	Online prediction of biomass moisture content in a fluidized bed dryer using electrostatic sensor arrays and the Random Forest method. Fuel, 2019, 239, 437-445.	3.4	27
36	Studies on combustion behaviours of single biomass particles using a visualization method. Biomass and Bioenergy, 2018, 109, 54-60.	2.9	33

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37	Localization of Multiple Leak Sources Using Acoustic Emission Sensors Based on MUSIC Algorithm and Wavelet Packet Analysis. IEEE Sensors Journal, 2018, 18, 9812-9820.	2.4	25
38	Rotational Speed Measurement Through Image Similarity Evaluation and Spectral Analysis. IEEE Access, 2018, 6, 46718-46730.	2.6	15
39	Plasmon-Enhanced Layered Double Hydroxide Composite BiVO₄ Photoanodes: Layering-Dependent Modulation of the Water-Oxidation Reaction. ACS Applied Energy Materials, 2018, 1, 3577-3586.	2.5	52
40	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
41	Top and bottom surfaces limit carrier lifetime in lead iodide perovskite films. Nature Energy, 2017, 2, .	19.8	376
42	Monitoring of particle motions in gas-solid fluidized beds by electrostatic sensors. Powder Technology, 2017, 308, 461-471.	2.1	18
43	A graded catalyticâ€“protective layer for an efficient and stable water-splitting photocathode. Nature Energy, 2017, 2, .	19.8	135
44	Assembly of g-C₃N₄-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
45	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
46	A Smart Electrostatic Sensor for Online Condition Monitoring of Power Transmission Belts. IEEE Transactions on Industrial Electronics, 2017, 64, 7313-7322.	5.2	22
47	Fe₂PO₅â€Encapsulated Reverse Energetic ZnO/Fe₂O₃ Heterojunction Nanowire for Enhanced Photoelectrochemical Oxidation of Water. ChemSusChem, 2017, 10, 2796-2804.	3.6	27
48	Multiple exciton generation for photoelectrochemical hydrogen evolution reactions with quantum yields exceeding 100%. Nature Energy, 2017, 2, .	19.8	172
49	Combustion behavior profiling of single pulverized coal particles in a drop tube furnace through high-speed imaging and image analysis. Experimental Thermal and Fluid Science, 2017, 85, 322-330.	1.5	27
50	Space-Confined Earth-Abundant Bifunctional Electrocatalyst for High-Efficiency Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36762-36771.	4.0	114
51	Nanoscale simultaneous chemical and mechanical imaging via peak force infrared microscopy. Science Advances, 2017, 3, e1700255.	4.7	115
52	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
53	Localization of CO2 Leakage from a Circular Hole on a Flat-Surface Structure Using a Circular Acoustic Emission Sensor Array. Sensors, 2016, 16, 1951.	2.1	12
54	Exfoliated 2D Transition Metal Disulfides for Enhanced Electrocatalysis of Oxygen Evolution Reaction in Acidic Medium. Advanced Materials Interfaces, 2016, 3, 1500669.	1.9	136

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55	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
56	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
57	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
58	Measurement of Flow Characteristics in a Bubbling Fluidized Bed Using Electrostatic Sensor Arrays. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 703-712.	2.4	23
59	Non-Contact Vibration Monitoring of Power Transmission Belts Through Electrostatic Sensing. IEEE Sensors Journal, 2016, 16, 3541-3550.	2.4	22
60	Water reduction by a p-GaInP2 photoelectrode stabilized by an amorphous TiO2 coating and a molecular cobalt catalyst. Nature Materials, 2016, 15, 456-460.	13.3	215
61	Effects of agglomerates on electrostatic behaviors in gasâ€“solid fluidized beds. Powder Technology, 2016, 287, 139-151.	2.1	12
62	Effects of material type and surface roughness of the rotor on the electrostatic sensing based rotational speed measurement. , 2015, , .		0
63	Photoelectrocatalytic Reduction of Carbon Dioxide. , 2015, , 211-233.		6
64	On-line Sizing of Pneumatically Conveyed Particles Through Acoustic Emission Detection and Signal Analysis. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1100-1109.	2.4	27
65	Maximum Likelihood Estimator, FFT Estimator and Cramér-Rao bounds of the laser Doppler frequency: The effect of a particle trajectory through the measurement volume. , 2015, , .		1
66	Prediction of NOx emissions from a biomass fired combustion process through digital imaging, non-negative matrix factorization and fast sparse regression. , 2015, , .		2
67	Measurement of flow parameters in a bubbling fluidized bed using electrostatic sensor arrays. , 2015, , .		4
68	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
69	Production and catalytic transformation of levulinic acid: A platform for speciality chemicals and fuels. Renewable and Sustainable Energy Reviews, 2015, 51, 986-997.	8.2	291
70	An integrated multi-channel electrostatic sensing and digital imaging system for the on-line measurement of biomassâ€“coal particles in fuel injection pipelines. Fuel, 2015, 151, 2-10.	3.4	39
71	Determination of nitrogen content in coal through UV Differential Optical Absorption Spectroscopy. Fuel, 2015, 151, 73-82.	3.4	10
72	Experimental investigations into the flow characteristics of pneumatically conveyed biomass particles using an electrostatic sensor array. Fuel, 2015, 151, 11-20.	3.4	69

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73	Structureâ€“Function Relationships for Electrocatalytic Water Oxidation by Molecular [Mn₁₂O₁₂] Clusters. Inorganic Chemistry, 2015, 54, 4550-4555.	1.9	26
74	Calibration of an Averaging Pitot Tube for Gaseous CO₂Flowmetering. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1240-1249.	2.4	11
75	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
76	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
77	Development of an electrostatic array sensor for measuring the velocity and concentration profiles of pneumatically conveyed particles. , 2015, , .		2
78	Leakage detection of gaseous CO<inf>2</inf> through thermal imaging. , 2015, , .		6
79	Low surface recombination velocity in solution-grown CH3NH3PbBr3 perovskite single crystal. Nature Communications, 2015, 6, 7961.	5.8	406
80	Light-Driven Heterogeneous Reduction of Carbon Dioxide: Photocatalysts and Photoelectrodes. Chemical Reviews, 2015, 115, 12888-12935.	23.0	1,386
81	An improved capacitively coupled contactless conductivity detection sensor for industrial applications. Sensors and Actuators A: Physical, 2015, 235, 273-280.	2.0	16
82	Electronic Structure and Optical Properties of Î±-CH₃NH₃PbBr₃ Perovskite Single Crystal. Journal of Physical Chemistry Letters, 2015, 6, 4304-4308.	2.1	136
83	Unprecedented spin localisation in a metalâ€“metal bonded dirhenium complex. Chemical Communications, 2015, 51, 5482-5485.	2.2	9
84	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
85	Onâ€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
86	<I>A Special Issue on</I> Clean Conversion and Utilization of Energy: Green Processes and Nanotechnology. Energy and Environment Focus, 2015, 4, 257-259.	0.3	0
87	Design and implementation of a pulverised coal flow monitoring system for coal-fired power plant applications. , 2014, , .		0
88	Representation of induced and transferred charge in the measurement signal from electrostatic sensors. , 2014, , .		3
89	Online particle size measurement through acoustic emission detection and signal analysis. , 2014, , .		12
90	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

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91	Soot volume fraction profiling of asymmetric diffusion flames through tomographic imaging. , 2014, , .		3
92	Imaging-based size measurement of fine particles from industrial stacks. , 2014, , .		2
93	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
94	Non-contact strip speed measurement using an electrostatic sensor array and data fusion technique. , 2014, , .		0
95	Fire detection using stereoscopic imaging and image processing techniques. , 2014, , .		3
96	Sensor system for unsteady flow characteristics in a sonic nozzle with vapor condensation. , 2014, , .		2
97	Tomographic imaging based measurement of three-dimensional geometric parameters of a burner flame. , 2014, , .		4
98	Numerical simulation and experimental study of the vortex flow around a bluff body in horizontal gas-liquid two-phase flow. , 2014, , .		0
99	Performance assessment of the rotational speed measurement system based on a single electrostatic sensor. , 2014, , .		2
100	Flow measurement of gaseous CO<inf>2</inf> using Averaging Pitot Tubes. , 2014, , .		1
101	Mathematical modelling and experimental validation of electrostatic sensors for rotational speed measurement. Measurement Science and Technology, 2014, 25, 115101.	1.4	17
102	Rotational Speed Measurement Through Electrostatic Sensing and Correlation Signal Processing. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1190-1199.	2.4	53
103	Design and implementation of an industrial C4D sensor for conductivity detection. Sensors and Actuators A: Physical, 2014, 213, 1-8.	2.0	10
104	Element Misidentification in X-ray Crystallography: A Reassessment of the [MCl₂(diazadiene)] (M = Cr, Mo, W) Series. Inorganic Chemistry, 2014, 53, 308-317.	1.9	10
105	Prediction of pollutant emissions of biomass flames using digital imaging, contourlet transform and Radial Basis Function network techniques. , 2014, , .		7
106	Rotational Speed Measurement Using Single and Dual Electrostatic Sensors. IEEE Sensors Journal, 2014, , 1-1.	2.4	23
107	A persuasive feedback support system for energy conservation and carbon emission reduction in campus residential buildings. Energy and Buildings, 2014, 82, 719-732.	3.1	27
108	Defect evaluation using the phase information of an EC-GMR sensor. , 2014, , .		3

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109	Effect of the wingtip shape on the performance of an averaging pitot tube flow sensor. , 2014, , .		1
110	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
111	Integrating persuasive technology with energy delegates for energy conservation and carbon emission reduction in a university campus. Energy, 2014, 76, 357-374.	4.5	26
112	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
113	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
114	p-Type CuRhO₂ as a Self-Healing Photoelectrode for Water Reduction under Visible Light. Journal of the American Chemical Society, 2014, 136, 830-833.	6.6	135
115	Support vector machine based online coal identification through advanced flame monitoring. Fuel, 2014, 117, 944-951.	3.4	37
116	Online sizing of pneumatically conveyed particles by acoustic emission method. , 2014, , .		1
117	Particle size measurement in gas-solid two-phase flow using acoustic sensors. , 2014, , .		0
118	Numerical simulation of the leakage and diffusion of CO2 in CCS transportation pipelines. , 2014, , .		0
119	On-line automatic detection of wood pellets in pneumatically conveyed wood dust flow. , 2014, , .		0
120	CO2 leak detection through acoustic sensing and infrared imaging. , 2014, , .		0
121	Hydrogen Bonded Pyridine Dimer: A Possible Intermediate in the Electrocatalytic Reduction of Carbon Dioxide to Methanol. Aerosol and Air Quality Research, 2014, 14, 515-521.	0.9	25
122	Spatial Selectivity of Linear Electrostatic Sensor Arrays for Particle Velocity Measurement. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 167-176.	2.4	20
123	Electrochemistry of Aqueous Pyridinium: Exploration of a Key Aspect of Electrocatalytic Reduction of CO₂ to Methanol. Journal of the American Chemical Society, 2013, 135, 14020-14023.	6.6	152
124	Three-dimensional temperature profiling of oxy-gas burner flames. , 2013, , .		2
125	A miniature, low-cost MEMS AHRS with application to posture control of robotic fish. , 2013, , .		9
126	A compendium of CO<inf>2</inf> leakage detection and monitoring techniques in carbon capture and storage (CCS) pipelines. , 2013, , .		7

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127	In-line particle sizing of pneumatically conveyed particles using a piezo film sensor. , 2013, , .		0
128	A simple index based quantitative assessment of flame stability. , 2013, , .		5
129	Rotational speed measurement using electrostatic sensors and correlation signal processing techniques. , 2013, , .		3
130	Intelligent condition monitoring of rotating machinery through electrostatic sensing and signal analysis. , 2013, , .		9
131	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
132	On-line particle sizing of pneumatically conveyed biomass particles using piezoelectric sensors. Fuel, 2013, 113, 810-816.	3.4	20
133	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
134	Ancillary Ligand Effects upon Dithiolene Redox Noninnocence in Tungsten Bis(dithiolene) Complexes. Inorganic Chemistry, 2013, 52, 6743-6751.	1.9	24
135	Guest Editorial Special Issue on the 2012 IEEE International Instrumentation and Measurement Technology Conference. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 867-868.	2.4	0
136	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
137	Flame stability monitoring through statistical analysis of the medial axis. , 2013, , .		0
138	Detecting the presence of large biomass particles in pneumatic conveying pipelines using an acoustic sensor. , 2013, , .		2
139	Real-time apparent density measurement of the working fluid in outlet pipes of a steam-injection boiler. , 2013, , .		0
140	Condition Monitoring of Combustion Processes Through Flame Imaging and Kernel Principal Component Analysis. Combustion Science and Technology, 2013, 185, 1400-1413.	1.2	23
141	Measurement of soot temperature, emissivity and concentration of a heavy-oil flame through pyrometric imaging. , 2012, , .		9
142	Measurement of flame temperature distribution using optical tomographic and two-color pyrometric techniques. , 2012, , .		7
143	Quantification of the ignitability of pulverized coals and coal blends through advanced flame monitoring. , 2012, , .		0
144	Three-dimensional reconstruction of flame temperature and emissivity through tomographic imaging and pyrometric measurement. , 2012, , .		7

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145	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
146	Prediction of NOx emissions throughflame radical imaging and neural network based soft computing. , 2012, , .		5
147	A three-dimensional shape descriptor for burner flames. , 2012, , .		1
148	On-line measurement of particle size distribution using piezoelectric sensors. , 2012, , .		5
149	A comparative study of rounded and strip electrostatic sensors for non-contact measurement of cable speed. , 2012, , .		2
150	Monitoring of oxygen content in flue gas at coal fired power plant using cloud modeling techniques. , 2012, , .		2
151	Quantitative characterization of pulverized coal and biomassâ€“coal blends in pneumatic conveying pipelines using electrostatic sensor arrays and data fusion techniques. Measurement Science and Technology, 2012, 23, 085307.	1.4	29
152	An FPGA correlator for continuous real-time measurement of particulate flow. , 2012, , .		1
153	Independent Component Analysisâ€“Based Fuel Type Identification for Coal-Fired Power Plants. Combustion Science and Technology, 2012, 184, 277-292.	1.2	9
154	Redox-Controlled Interconversion between Trigonal Prismatic and Octahedral Geometries in a Monodithiolene Tetracarbonyl Complex of Tungsten. Inorganic Chemistry, 2012, 51, 346-361.	1.9	25
155	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
156	Recent Advances in Flame Tomography. Chinese Journal of Chemical Engineering, 2012, 20, 389-399.	1.7	53
157	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
158	An Autoadaptive Edge-Detection Algorithm for Flame and Fire Image Processing. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1486-1493.	2.4	115
159	Special Issue on the 2011 IEEE International Instrumentation and Measurement Technology Conference. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1138-1139.	2.4	0
160	Optical Fiber Imaging Based Tomographic Reconstruction of Burner Flames. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1417-1425.	2.4	89
161	Three-dimensional reconstruction of combustion flames through optical fiber sensing and CCD imaging. , 2011, , .		16
162	Contour-based image segmentation for on-line size distribution measurement of pneumatically conveyed particles. , 2011, , .		8

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163	A multi-parameter assessment tool for upper limb motion in neurorehabilitation. , 2011, , .		6
164	A multiplexer system for multi-channel charge signal processing in in-shoe force measurement. , 2011, , .		0
165	Monoanionic Molybdenum and Tungsten Tris(dithiolene) Complexes: A Multifrequency EPR Study. Inorganic Chemistry, 2011, 50, 7106-7122.	1.9	55
166	A new edge detection algorithm for flame image processing. , 2011, , .		12
167	A Medial Axis Extraction Algorithm for the Processing of Combustion Flame Images. , 2011, , .		2
168	Non-contact strip speed measurement using electrostatic sensing and correlation signal-processing techniques. Measurement Science and Technology, 2011, 22, 075103.	1.4	21
169	Evaluation of redox-responsive disulfide cross-linked poly(hydroxyethyl methacrylate) hydrogels. Polymer, 2011, 52, 5262-5270.	1.8	27
170	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
171	Fast reconstruction of computerized tomography images based on the cross-entropy method. Flow Measurement and Instrumentation, 2011, 22, 295-302.	1.0	10
172	Watershed Transformation Based Identification of the Combustion Region in an Oxy-coal Flame Image. , 2011, , .		1
173	Flow measurement of pneumatically conveyed biomass-coal particles using multi-channel electrostatic sensors. , 2011, , .		3
174	Flame stability monitoring and characterization through digital imaging and spectral analysis. Measurement Science and Technology, 2011, 22, 114007.	1.4	35
175	Spatial selectivity of linear electrostatic sensor arrays. , 2011, , .		5
176	On-line non-intrusive measurements of the velocity and particle size distribution of pulverised fuel on a full scale power plant. , 2011, , .		3
177	Application of digital imaging techniques to flare monitoring. Journal of Physics: Conference Series, 2011, 307, 012048.	0.3	1
178	Airâ€“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
179	Velocity Measurement of Pneumatically Conveyed Particles Using Intrusive Electrostatic Sensors. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1477-1484.	2.4	61
180	Separation of Gasâ€“Liquid Two-Phase Flow Through Independent Component Analysis. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1294-1302.	2.4	16

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181	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
182	Characterisation of an oxy-coal flame through digital imaging. Combustion and Flame, 2010, 157, 1132-1139.	2.8	89
183	A spectroscopic imaging system for flame radical profiling. , 2010, , .		5
184	Non-contact strip speed measurement using electrostatic sensors. , 2010, , .		2
185	Recent advances in imaging based instrumentation for combustion plant optimization. , 2010, , .		2
186	Design and characterisation of a single element tri-axial piezoelectric transducer for in-shoe force measurement. , 2010, , .		2
187	Reconstruction of CT images based on cross-entropy method. , 2010, , .		0
188	Computational Studies on Response and Binding Selectivity of Fluorescence Sensors. Journal of Physical Chemistry B, 2010, 114, 870-876.	1.2	41
189	An embedded imaging and signal processing system for flame stability monitoring and characterisation. , 2010, , .		6
190	Study on reducing the effect of salinity in the phase fraction measurement of oil/water two-phase flow. , 2009, , .		0
191	Comparative studies of electrostatic sensors with circular and rod electrodes for the velocity measurement of pulverized coal and biomass fuels. , 2009, , .		4
192	Independent component analysis of the interface fluctuations of gas/liquid two-phase flow. , 2009, , .		1
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