Xin Yang

List of Publications by Year
in descending order

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138 papers	8,983 citations	36303 51 h-index	43889 91 g-index
139 all docs	139 docs citations	139 times ranked	6781 citing authors

#	Article	IF	Citations
1	Role of Antioxidant Moieties in the Quenching of a Purine Radical by Dissolved Organic Matter. Environmental Science & Technology, 2022, 56, 546-555.	10.0	19
2	A Novel UVA/ClO₂ Advanced Oxidation Process for the Degradation of Micropollutants in Water. Environmental Science & Technology, 2022, 56, 1257-1266.	10.0	40
3	Kinetics and Transformations of Diverse Dissolved Organic Matter Fractions with Sulfate Radicals. Environmental Science & Technology, 2022, 56, 4457-4466.	10.0	38
4	Bromine Radical (Br^{â€¢} and Br₂^{â€¢â€“}) Reactivity with Dissolved Organic Matter and Brominated Organic Byproduct Formation. Environmental Science & Technology, 2022, 56, 5189-5199.	10.0	33
5	Multi-angle comparison of UV/chlorine, UV/monochloramine, and UV/chlorine dioxide processes for water treatment and reuse. Water Research, 2022, 217, 118414.	11.3	32
6	ClO2 pre-oxidation changes dissolved organic matter at the molecular level and reduces chloro-organic byproducts and toxicity of water treated by the UV/chlorine process. Water Research, 2022, 216, 118341.	11.3	15
7	Multiple Roles of Dissolved Organic Matter in Advanced Oxidation Processes. Environmental Science & Technology, 2022, 56, 11111-11131.	10.0	112
8	Transformation of dissolved organic matter during biological wastewater treatment and relationships with the formation of nitrogenous disinfection byproducts. Water Research, 2022, 222, 118870.	11.3	20
9	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. Medical Image Analysis, 2021, 67, 101832.	11.6	150
10	The multiple roles of chlorite on the concentrations of radicals and ozone and formation of chlorate during UV photolysis of free chlorine. Water Research, 2021, 190, 116680.	11.3	36
11	Reactivity of Chlorine Radicals (Cl^{â€¢} and Cl₂^{â€¢â€“}) with Dissolved Organic Matter and the Formation of Chlorinated Byproducts. Environmental Science & Technology, 2021, 55, 689-699.	10.0	124
12	Kinetics and Mechanisms of Virus Inactivation by Chlorine Dioxide in Water Treatment: A Review. Bulletin of Environmental Contamination and Toxicology, 2021, 106, 560-567.	2.7	30
13	Effect of UV/chlorine treatment on photophysical and photochemical properties of dissolved organic matter. Water Research, 2021, 192, 116857.	11.3	34
14	Prediction of Photolysis Kinetics of Viral Genomes under UV254 Irradiation to Estimate Virus Infectivity Loss. Water Research, 2021, 198, 117165.	11.3	10
15	UV254 irradiation of N-chloro-Î±-amino acids: Kinetics, mechanisms, and N-DBP formation potentials. Water Research, 2021, 199, 117204.	11.3	16
16	Roles and Knowledge Gaps of Point-of-Use Technologies for Mitigating Health Risks from Disinfection Byproducts in Tap Water: A Critical Review. Water Research, 2021, 200, 117265.	11.3	51
17	Rate Constants and Mechanisms for Reactions of Bromine Radicals with Trace Organic Contaminants. Environmental Science & Technology, 2021, 55, 10502-10513.	10.0	51
18	Redox-Active Moieties in Dissolved Organic Matter Accelerate the Degradation of Nitroimidazoles in SO₄^{â€¢â€“}-Based Oxidation. Environmental Science & Technology, 2021, 55, 14844-14853.	10.0	35

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19	Oxidation of tetrabromobisphenol A (TBBPA) by peroxymonosulfate: The role of in-situ formed HOBr. Water Research, 2020, 169, 115202.	11.3	47
20	Prediction of adsorption capacity for pharmaceuticals, personal care products and endocrine disrupting chemicals onto various adsorbent materials. Chemosphere, 2020, 238, 124658.	8.2	35
21	Gallic acid accelerated BDE47 degradation in PMS/Fe(III) system: Oxidation intermediates autocatalyzed redox cycling of iron. Chemical Engineering Journal, 2020, 384, 123248.	12.7	64
22	Coexposure Degradation of Purine Derivatives in the Sulfate Radical-Mediated Oxidation Process. Environmental Science & Technology, 2020, 54, 1186-1195.	10.0	26
23	A Review on Hexachloro-1,3-butadiene (HCBD): Sources, Occurrence, Toxicity and Transformation. Bulletin of Environmental Contamination and Toxicology, 2020, 104, 1-7.	2.7	4
24	ClO2 pre-oxidation impacts the formation and nitrogen origins of dichloroacetonitrile and dichloroacetamide during subsequent chloramination. Water Research, 2020, 186, 116313.	11.3	13
25	Natural polyphenols enhanced the Cu(II)/peroxymonosulfate (PMS) oxidation: The contribution of Cu(III) and HOâ€¢. Water Research, 2020, 186, 116326.	11.3	117
26	Copper Inhibition of Triplet-Sensitized Phototransformation of Phenolic and Amine Contaminants. Environmental Science & Technology, 2020, 54, 9980-9989.	10.0	22
27	The reactions of chlorine dioxide with inorganic and organic compounds in water treatment: kinetics and mechanisms. Environmental Science: Water Research and Technology, 2020, 6, 2287-2312.	2.4	50
28	Discovering the Importance of ClO^{â€¢} in a Coupled Electrochemical System for the Simultaneous Removal of Carbon and Nitrogen from Secondary Coking Wastewater Effluent. Environmental Science & Technology, 2020, 54, 9015-9024.	10.0	76
29	Uncertainty-aware domain alignment for anatomical structure segmentation. Medical Image Analysis, 2020, 64, 101732.	11.6	39
30	Exploration of reaction rates of chlorine dioxide with tryptophan residue in oligopeptides and proteins. Journal of Environmental Sciences, 2020, 93, 129-136.	6.1	7
31	Hybrid attention for automatic segmentation of whole fetal head in prenatal ultrasound volumes. Computer Methods and Programs in Biomedicine, 2020, 194, 105519.	4.7	12
32	Disinfection byproducts and their toxicity in wastewater effluents treated by the mixing oxidant of ClO2/Cl2. Water Research, 2019, 162, 471-481.	11.3	70
33	Degradation and DBP formations from pyrimidines and purines bases during sequential or simultaneous use of UV and chlorine. Water Research, 2019, 165, 115023.	11.3	32
34	Rate Constants and Mechanisms of the Reactions of Cl^{â€¢} and Cl₂^{â€¢â€“} with Trace Organic Contaminants. Environmental Science & Technology, 2019, 53, 11170-11182.	10.0	277
35	Joint Segmentation and Landmark Localization of Fetal Femur in Ultrasound Volumes. , 2019, , .		15
36	Synergistic removal of ammonium by monochloramine photolysis. Water Research, 2019, 152, 226-233.	11.3	56

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37	Transformation of adenine and cytosine in chlorination â€" An ESI-tqMS investigation. Chemosphere, 2019, 234, 505-512.	8.2	12
38	Different biotransformation of three hexabromocyclododecane diastereoisomers by Pseudomonas sp. under aerobic conditions. Chemical Engineering Journal, 2019, 374, 870-879.	12.7	17
39	Photochemical oxidation of PPCPs using a combination of solar irradiation and free available chlorine. Science of the Total Environment, 2019, 682, 629-638.	8.0	52
40	Enhanced removal of Cr(VI) in the Fe(III)/natural polyphenols system: role of the in situ generated Fe(II). Journal of Hazardous Materials, 2019, 377, 321-329.	12.4	49
41	Chlorite formation during ClO2 oxidation of model compounds having various functional groups and humic substances. Water Research, 2019, 159, 348-357.	11.3	62
42	Combining solar irradiation with chlorination enhances the photochemical decomposition of microcystin-LR. Water Research, 2019, 159, 324-332.	11.3	36
43	The influence of the UV/chlorine advanced oxidation of natural organic matter for micropollutant degradation on the formation of DBPs and toxicity during post-chlorination. Chemical Engineering Journal, 2019, 373, 870-879.	12.7	50
44	Effects of KMnO4/NaHSO3 pre-oxidation on the formation potential of disinfection by-products during subsequent chlorination. Chemical Engineering Journal, 2019, 372, 825-835.	12.7	22
45	Influence of (photo)bromination on the transformation, aggregation and sedimentation of graphene oxide. Chemical Engineering Journal, 2019, 355, 487-497.	12.7	13
46	ClO2 pre-oxidation changes the yields and formation pathways of chloroform and chloral hydrate from phenolic precursors during chlorination. Water Research, 2019, 148, 250-260.	11.3	38
47	Three-dimensional Î±-Fe2O3/amino-functionalization carbon nanotube sponge for adsorption and oxidative removal of tetrabromobisphenol A. Separation and Purification Technology, 2019, 211, 359-367.	7.9	36
48	Elimination kinetics and detoxification mechanisms of microcystin-LR during UV/Chlorine process. Chemosphere, 2019, 214, 702-709.	8.2	39
49	A pilot study of a cardiovascular virtual endoscopy system based on multiâ€'detector computed tomography in diagnosing tetralogy of Fallot in pediatric patients. Experimental and Therapeutic Medicine, 2018, 15, 1552-1559.	1.8	2
50	Differential UVâ€"vis absorbance can characterize the reaction of organic matter with ClO2. Water Research, 2018, 139, 442-449.	11.3	35
51	Application of cardiovascular virtual endoscopy: a pilot study on roaming path planning for diagnosis of congenital heart diseases in children. Scientific Reports, 2018, 8, 1424.	3.3	2
52	The Multiple Role of Bromide Ion in PPCPs Degradation under UV/Chlorine Treatment. Environmental Science & Technology, 2018, 52, 1806-1816.	10.0	157
53	Copper Inhibition of Triplet-Induced Reactions Involving Natural Organic Matter. Environmental Science & Technology, 2018, 52, 2742-2750.	10.0	36
54	Cu(II)-catalyzed degradation of ampicillin: effect of pH and dissolved oxygen. Environmental Science and Pollution Research, 2018, 25, 4279-4288.	5.3	19

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55	Sorption, mobility, and bioavailability of PBDEs in the agricultural soils: Roles of co-existing metals, dissolved organic matter, and fertilizers. Science of the Total Environment, 2018, 619-620, 1153-1162.	8.0	23
56	Removal of chlorinated organic solvents from hydraulic fracturing wastewater by bare and entrapped nanoscale zero-valent iron. Chemosphere, 2018, 196, 9-17.	8.2	45
57	Occurrence and indicators of pharmaceuticals in Chinese streams: A nationwide study. Environmental Pollution, 2018, 236, 889-898.	7.5	90
58	Bromide and Other Halide Ion Removal From Drinking Waters Using Silverâ€Amended Coagulation. Journal - American Water Works Association, 2018, 110, 13-24.	0.3	4
59	Impact of metal ions, metal oxides, and nanoparticles on the formation of disinfection byproducts during chlorination. Chemical Engineering Journal, 2017, 317, 777-792.	12.7	75
60	Degradation of 2,2â€²,4,4â€²-tetrabromodiphenyl ether (BDE-47) by a nano zerovalent iron-activated persulfate process: The effect of metal ions. Chemical Engineering Journal, 2017, 317, 613-622.	12.7	57
61	3D deeply supervised network for automated segmentation of volumetric medical images. Medical Image Analysis, 2017, 41, 40-54.	11.6	444
62	Assessment of coronary artery by prospective ECG-triggered 256 multi-slice CT on children with congenital heart disease. International Journal of Cardiovascular Imaging, 2017, 33, 2021-2028.	1.5	5
63	UV/chlorine treatment of carbamazepine: Transformation products and their formation kinetics. Water Research, 2017, 116, 254-265.	11.3	125
64	Defining the molecular properties of N-nitrosodimethylamine (NDMA) precursors using computational chemistry. Environmental Science: Water Research and Technology, 2017, 3, 502-512.	2.4	9
65	An automated method for accurate vessel segmentation. Physics in Medicine and Biology, 2017, 62, 3757-3778.	3.0	17
66	Cerebral vessels segmentation for light-sheet microscopy image using convolutional neural networks. , 2017, , .		1
67	Factors affecting the roles of reactive species in the degradation of micropollutants by the UV/chlorine process. Water Research, 2017, 126, 351-360.	11.3	263
68	Occurrence of nitrogenous and carbonaceous disinfection byproducts in drinking water distributed in Shenzhen, China. Chemosphere, 2017, 188, 257-264.	8.2	60
69	Radical Chemistry and Structural Relationships of PPCP Degradation by UV/Chlorine Treatment in Simulated Drinking Water. Environmental Science & Technology, 2017, 51, 10431-10439.	10.0	449
70	DBP formation from degradation of DEET and ibuprofen by UV/chlorine process and subsequent post-chlorination. Journal of Environmental Sciences, 2017, 58, 146-154.	6.1	33
71	Surface-modified biochar in a bioretention system for Escherichia coli removal from stormwater. Chemosphere, 2017, 169, 89-98.	8.2	107
72	Selective dissolution followed by EDDS washing of an e-waste contaminated soil: Extraction efficiency, fate of residual metals, and impact on soil environment. Chemosphere, 2017, 166, 489-496.	8.2	94

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73	Photosensitized degradation of acetaminophen in natural organic matter solutions: The role of triplet states and oxygen. Water Research, 2017, 109, 266-273.	11.3	112
74	Mechanisms and kinetics study on the trihalomethanes formation with carbon nanoparticle precursors. Chemosphere, 2016, 154, 391-397.	8.2	25
75	The photodegradation of polybrominated diphenyl ethers (PBDEs) in various environmental matrices: Kinetics and mechanisms. Chemical Engineering Journal, 2016, 297, 74-96.	12.7	88
76	PPCP degradation by UV/chlorine treatment and its impact on DBP formation potential in real waters. Water Research, 2016, 98, 309-318.	11.3	186
77	Characteristics and DBP formation of dissolved organic matter from leachates of fresh and aged leaf litter. Chemosphere, 2016, 152, 335-344.	8.2	18
78	Roles of reactive chlorine species in trimethoprim degradation in the UV/chlorine process: Kinetics and transformation pathways. Water Research, 2016, 104, 272-282.	11.3	267
79	Emerging investigators series: disinfection by-products in mixed chlorine dioxide and chlorine water treatment. Environmental Science: Water Research and Technology, 2016, 2, 838-847.	2.4	20
80	Integrating EDDS-enhanced washing with low-cost stabilization of metal-contaminated soil from an e-waste recycling site. Chemosphere, 2016, 159, 426-432.	8.2	65
81	The roles of halides in the acetaminophen degradation by UV/H2O2 treatment: Kinetics, mechanisms, and products analysis. Chemical Engineering Journal, 2015, 271, 214-222.	12.7	80
82	Effect of pH on the formation of disinfection byproducts in ferrate(VI) pre-oxidation and subsequent chlorination. Separation and Purification Technology, 2015, 156, 980-986.	7.9	33
83	Application of Pretreatment Methods for Reliable Dissolved Organic Nitrogen Analysis in Waterâ€”A Review. Critical Reviews in Environmental Science and Technology, 2015, 45, 249-276.	12.8	20
84	Ciprofloxacin adsorption on graphene and granular activated carbon: kinetics, isotherms, and effects of solution chemistry. Environmental Technology (United Kingdom), 2015, 36, 3094-3102.	2.2	84
85	Investigation of disinfection byproducts formation in ferrate(VI) pre-oxidation of NOM and its model compounds followed by chlorination. Journal of Hazardous Materials, 2015, 292, 197-204.	12.4	97
86	Locally-constrained boundary regression for segmentation of prostate and rectum in the planning CT images. Medical Image Analysis, 2015, 26, 345-356.	11.6	34
87	Role of Chlorine Dioxide in N-Nitrosodimethylamine Formation from Oxidation of Model Amines. Environmental Science & Technology, 2015, 49, 11429-11437.	10.0	28
88	Sorption performance and mechanism of a sludge-derived char as porous carbon-based hybrid adsorbent for benzene derivatives in aqueous solution. Journal of Hazardous Materials, 2014, 274, 205-211.	12.4	56
89	Electrospray Ionization-Tandem Mass Spectrometry Method for Differentiating Chlorine Substitution in Disinfection Byproduct Formation. Environmental Science & Technology, 2014, 48, 4877-4884.	10.0	29
90	Hierarchical Lung Field Segmentation With Joint Shape and Appearance Sparse Learning. IEEE Transactions on Medical Imaging, 2014, 33, 1761-1780.	8.9	57

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91	Factors affecting the formation of iodo-trihalomethanes during oxidation with chlorine dioxide. Journal of Hazardous Materials, 2014, 264, 91-97.	12.4	11
92	Iterative contextual CV model for liver segmentation. , 2014, , .		0
93	Identifying the sources and fate of anthropogenically impacted dissolved organic matter (DOM) in urbanized rivers. Water Research, 2013, 47, 5027-5039.	11.3	165
94	ACM-Based Automatic Liver Segmentation From 3-D CT Images by Combining Multiple Atlases and Improved Mean-Shift Techniques. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 690-698.	6.3	30
95	Rotation Invariant Texture Descriptor Using Local Shearlet-Based Energy Histograms. IEEE Signal Processing Letters, 2013, 20, 905-908.	3.6	37
96	Effluent Particle Size and Permeability of Polyvinylchloride Membranes after Sodium Hypochlorite Exposure. Journal of Environmental Engineering, ASCE, 2013, 139, 712-718.	1.4	4
97	The occurrence of disinfection by-products in municipal drinking water in China's Pearl River Delta and a multipathway cancer risk assessment. Science of the Total Environment, 2013, 447, 108-115.	8.0	72
98	Effect of Suspended Solids on the Sequential Disinfection of Secondary Effluent by UV Irradiation and Chlorination. Journal of Environmental Engineering, ASCE, 2013, 139, 1482-1487.	1.4	17
99	Occurrence and fate of PPCPs and correlations with water quality parameters in urban riverine waters of the Pearl River Delta, South China. Environmental Science and Pollution Research, 2013, 20, 5864-5875.	5.3	87
100	Formation of disinfection byproducts upon chlorine dioxide preoxidation followed by chlorination or chloramination of natural organic matter. Chemosphere, 2013, 91, 1477-1485.	8.2	120
101	Formation of disinfection by-products after pre-oxidation with chlorine dioxide or ferrate. Water Research, 2013, 47, 5856-5864.	11.3	90
102	Nitrogen Origins and the Role of Ozonation in the Formation of Haloacetonitriles and Halonitromethanes in Chlorine Water Treatment. Environmental Science & Technology, 2012, 46, 12832-12838.	10.0	41
103	Effects of ozone and ozone/peroxide pretreatments on disinfection byproduct formation during subsequent chlorination and chloramination. Journal of Hazardous Materials, 2012, 239-240, 348-354.	12.4	57
104	Precursors and nitrogen origins of trichloronitromethane and dichloroacetonitrile during chlorination/chloramination. Chemosphere, 2012, 88, 25-32.	8.2	144
105	Effects of UV irradiation and UV/chlorine co-exposure on natural organic matter in water. Science of the Total Environment, 2012, 414, 576-584.	8.0	45
106	Microscopic Local Binary Pattern for Texture Classification. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1587-1595.	0.3	0
107	Occurrence and removal of pharmaceuticals and personal care products (PPCPs) in an advanced wastewater reclamation plant. Water Research, 2011, 45, 5218-5228.	11.3	450
108	Formation of halogenated organic byproducts during medium-pressure UV and chlorine coexposure of model compounds, NOM and bromide. Water Research, 2011, 45, 6545-6554.	11.3	76

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109	Robust Contour Tracking by Combining Region and Boundary Information. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1784-1794.	8.3	8
110	Formation of disinfection byproducts from chlor(am)ination of algal organic matter. Journal of Hazardous Materials, 2011, 197, 378-388.	12.4	100
111	Vascular Active Contour for Vessel Tree Segmentation. IEEE Transactions on Biomedical Engineering, 2011, 58, 1023-1032.	4.2	101
112	Optimal Gaussian Kernel Parameter Selection for SVM Classifier. IEICE Transactions on Information and Systems, 2010, E93-D, 3352-3358.	0.7	1
113	Removal of natural organic matter using surfactant-modified iron oxide-coated sand. Journal of Hazardous Materials, 2010, 174, 567-572.	12.4	39
114	Liver segmentation by an active contour model with embedded Gaussian mixture model based classifiers. , 2010, , .		7
115	Formation of carbonaceous and nitrogenous disinfection by-products from the chlorination of Microcystis aeruginosa. Water Research, 2010, 44, 1934-1940.	11.3	252
116	Nitrogenous disinfection byproducts formation and nitrogen origin exploration during chloramination of nitrogenous organic compounds. Water Research, 2010, 44, 2691-2702.	11.3	148
117	Characterization of algal organic matter and formation of DBPs from chlor(am)ination. Water Research, 2010, 44, 5897-5906.	11.3	327
118	Registration-based auto-detection of the optimal cross sections in 3D echocardiographic images. , 2010, , .		0
119	FAST TRACKING OF OBJECT CONTOUR BASED ON COLOR AND TEXTURE. International Journal of Pattern Recognition and Artificial Intelligence, 2009, 23, 1421-1438.	1.2	9
120	Multi-view face detection with the multi-resolution MPP classifiers. , 2009, , .		0
121	Region competition based active contour for medical object extraction. Computerized Medical Imaging and Graphics, 2008, 32, 109-117.	5.8	40
122	Fast interactive volume rendering method for adjustable vessel segmentation visualization. Journal of Shanghai University, 2008, 12, 240-248.	0.1	0
123	3D Face Visualization Using Grid Light. Computing in Science and Engineering, 2008, 10, 48-54.	1.2	2
124	Correlations between organic matter properties and DBP formation during chloramination. Water Research, 2008, 42, 2329-2339.	11.3	132
125	A New Image Quality Approach Based on Decision Fusion. , 2008, , .		4
126	Automatic acquisition of the four-chamber view for 3D echocardiography. IEICE Electronics Express, 2008, 5, 316-320.	0.8	1

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127	Factors affecting formation of haloacetonitriles, haloketones, chloropicrin and cyanogen halides during chloramination. Water Research, 2007, 41, 1193-1200.	11.3	229
128	Comparison of colorimetric and membrane introduction mass spectrometry techniques for chloramine analysis. Water Research, 2007, 41, 3097-3102.	11.3	62
129	THM, HAA and CNCl formation from UV irradiation and chlor(am)ination of selected organic waters. Water Research, 2006, 40, 2033-2043.	11.3	105
130	An edge-preserving algorithm of joint image restoration and volume reconstruction for rotation-scanning 4D echocardiographic images. Journal of Zhejiang University: Science A, 2006, 7, 960-968.	2.4	0
131	A new adaptive diffusion equation for image noise removal and feature preservation. , 2006, , .		0
132	Quantification of aqueous cyanogen chloride and cyanogen bromide in environmental samples by MIMS. Water Research, 2005, 39, 1709-1718.	11.3	37
133	Kinetics of cyanogen chloride destruction by chemical reduction methods. Water Research, 2005, 39, 2114-2124.	11.3	12
134	DBP formation in breakpoint chlorination of wastewater. Water Research, 2005, 39, 4755-4767.	11.3	110
135	Chlorination Byproduct Formation in the Presence of Humic Acid, Model Nitrogenous Organic Compounds, Ammonia, and Bromide. Environmental Science & Technology, 2004, 38, 4995-5001.	10.0	113
136	Constrained quantization algorithm for color images. , 0, , .		0
137	A Two-Stage Level Set Evolution Scheme for Man-Made Objects Detection in Aerial Images. , 0, , .		10
138	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. , 0, .		1