

# Dovydas Barauskas

## List of Publications by Year in descending order

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19  
papers

177  
citations

1307594

7  
h-index

1125743

13  
g-index

19  
all docs

19  
docs citations

19  
times ranked

183  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient Struvite Formation during Stoichiometric (1:1) $\text{NH}_4^+$ and $\text{PO}_4^{3-}$ Adsorption/Reaction on Magnesium Oxide (MgO) Particles. ACS Sustainable Chemistry and Engineering, 2019, 7, 1545-1556.	6.7	30
2	Resonant gravimetric immunosensing based on capacitive micromachined ultrasound transducers. Mikrochimica Acta, 2014, 181, 1749-1757.	5.0	29
3	Greenhouse Gas Molecule $\text{CO}_2$ Detection Using a Capacitive Micromachined Ultrasound Transducer. Analytical Chemistry, 2016, 88, 6662-6665.	6.5	21
4	CMUT-based biosensor with convolutional neural network signal processing. Ultrasonics, 2019, 99, 105956.	3.9	20
5	Methylated Poly(ethyleneimine) Modified Capacitive Micromachined Ultrasonic Transducer for Measurements of $\text{CO}_2$ and $\text{SO}_2$ in Their Mixtures. Sensors, 2019, 19, 3236.	3.8	18
6	Spatially Resolved Product Speciation during Struvite Synthesis from Magnesite ( $\text{MgCO}_3$ ) Particles in Ammonium ( $\text{NH}_4^+$ ) and Phosphate ( $\text{PO}_4^{3-}$ ) Aqueous Solutions. Journal of Physical Chemistry C, 2019, 123, 8908-8922.	3.1	17
7	$\text{CO}_2$ and $\text{SO}_2$ Interactions with Methylated Poly(ethylenimine)-Functionalized Capacitive Micromachined Ultrasonic Transducers (CMUTs): Gas Sensing and Degradation Mechanism. ACS Applied Electronic Materials, 2019, 1, 1150-1161.	4.3	14
8	Acoustical Streaming in Microfluidic CMUT Integrated Chip Controls the Biochemical Interaction Rate. Journal of Microelectromechanical Systems, 2017, 26, 1012-1017.	2.5	8
9	CMUT for high sensitivity greenhouse gas sensing. , 2015, , .		5
10	Capacitive micromachined ultrasound transducers (CMUT) for resonant gravimetric immunosensing. , 2014, , .		3
11	Inkjet-Printed Functionalization of CMUT-Based $\text{CO}_2$ Sensors. Sensors, 2022, 22, 2288.	3.8	3
12	Study of the CMUT operation in microfluidic application. , 2012, , .		2
13	Surface micromachined CMUTs for liquid phase sensing. , 2014, , .		2
14	Application of CMUT as immunosensor. , 2013, , .		1
15	Non-Contact Sensing of Elastic Modulus of the UV Cured Furniture Coatings by the Transverse Acoustical Waves. IEEE Sensors Journal, 2018, 18, 6527-6532.	4.7	1
16	Selective Ultrasonic Gravimetric Sensors Based on Capacitive Micromachined Ultrasound Transducer Structure—A Review. Sensors, 2020, 20, 3554.	3.8	1
17	An Immunosensing System for Antibody Detection Based on Capacitive Micromachined Ultrasound Transducer Resonance Sensors. Sensor Letters, 2014, 12, 1746-1749.	0.4	1
18	Capacitive Micromachined Ultrasound Transducer as a Sensor in Microfluidic Environment. Sensor Letters, 2014, 12, 1597-1599.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Design, fabrication and testing of surface micromachined CMUTs for surface and interface waves. Elektronika Ir Elektrotechnika, 2016, 22, .	0.8	0