

Sacha Noimark

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,819
citations

279798

23
h-index

289244

40
g-index

45
all docs

45
docs citations

45
times ranked

2195
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive plano-concave optical microresonators for ultrasound sensing. <i>Nature Photonics</i> , 2017, 11, 714-719.	31.4	255
2	The role of surfaces in catheter-associated infections. <i>Chemical Society Reviews</i> , 2009, 38, 3435.	38.1	190
3	Carbon Nanotube/PDMS Composite Coatings on Optical Fibers for All-Optical Ultrasound Imaging. <i>Advanced Functional Materials</i> , 2016, 26, 8390-8396.	14.9	120
4	Dual-Mechanism Antimicrobial Polymer/ZnO Nanoparticle and Crystal Violet-Encapsulated Silicone. <i>Advanced Functional Materials</i> , 2015, 25, 1367-1373.	14.9	94
5	Through-needle all-optical ultrasound imaging in vivo: a preclinical swine study. <i>Light: Science and Applications</i> , 2017, 6, e17103-e17103.	16.6	90
6	Shining light on materials – A self-sterilising revolution. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 570-580.	13.7	83
7	Polydimethylsiloxane Composites for Optical Ultrasound Generation and Multimodality Imaging. <i>Advanced Functional Materials</i> , 2018, 28, 1704919.	14.9	81
8	Potent Antibacterial Activity of Copper Embedded into Silicone and Polyurethane. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22807-22813.	8.0	71
9	Nanoparticulate silver coated-titania thin films – Photo-oxidative destruction of stearic acid under different light sources and antimicrobial effects under hospital lighting conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 220, 113-123.	3.9	69
10	Incorporation of methylene blue and nanogold into polyvinyl chloride catheters; a new approach for light-activated disinfection of surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 15388.	6.7	62
11	Pencil beam all-optical ultrasound imaging. <i>Biomedical Optics Express</i> , 2016, 7, 3696.	2.9	54
12	Thiol-Capped Gold Nanoparticles Swell-Encapsulated into Polyurethane as Powerful Antibacterial Surfaces Under Dark and Light Conditions. <i>Scientific Reports</i> , 2016, 6, 39272.	3.3	54
13	Optical fiber ultrasound transmitter with electrospun carbon nanotube-polymer composite. <i>Applied Physics Letters</i> , 2017, 110, 223701.	3.3	54
14	Light-activated antimicrobial surfaces with enhanced efficacy induced by a dark-activated mechanism. <i>Chemical Science</i> , 2014, 5, 2216-2223.	7.4	52
15	All-Optical Rotational Ultrasound Imaging. <i>Scientific Reports</i> , 2019, 9, 5576.	3.3	47
16	Lethal photosensitisation of <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> using crystal violet and zinc oxide-encapsulated polyurethane. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6490-6500.	5.8	43
17	Photobactericidal polymers; the incorporation of crystal violet and nanogold into medical grade silicone. <i>RSC Advances</i> , 2013, 3, 18383.	3.6	42
18	Enhancing the Antibacterial Activity of Light-Activated Surfaces Containing Crystal Violet and ZnO Nanoparticles: Investigation of Nanoparticle Size, Capping Ligand, and Dopants. <i>ACS Omega</i> , 2016, 1, 334-343.	3.5	41

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19	Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness. ACS Applied Materials & Interfaces, 2018, 10, 98-104.	8.0	35
20	Comparative study of singlet oxygen production by photosensitiser dyes encapsulated in silicone: towards rational design of anti-microbial surfaces. Physical Chemistry Chemical Physics, 2016, 18, 28101-28109.	2.8	31
21	A Light-Activated Antimicrobial Surface Is Active Against Bacterial, Viral and Fungal Organisms. Scientific Reports, 2017, 7, 15298.	3.3	27
22	Video-rate all-optical ultrasound imaging. Biomedical Optics Express, 2018, 9, 3481.	2.9	25
23	A reconfigurable all-optical ultrasound transducer array for 3D endoscopic imaging. Scientific Reports, 2017, 7, 1208.	3.3	23
24	Antibacterial Surfaces with Activity against Antimicrobial Resistant Bacterial Pathogens and Endospores. ACS Infectious Diseases, 2020, 6, 939-946.	3.8	21
25	White light-activated antimicrobial surfaces: effect of nanoparticles type on activity. Journal of Materials Chemistry B, 2016, 4, 2199-2207.	5.8	19
26	Incorporation of crystal violet, methylene blue and safranin O into a copolymer emulsion; the development of a novel antimicrobial paint. RSC Advances, 2015, 5, 26364-26375.	3.6	17
27	Functionalised gold and titania nanoparticles and surfaces for use as antimicrobial coatings. Faraday Discussions, 2014, 175, 273-287.	3.2	16
28	Silver loaded WO ₃ x/TiO ₂ composite multifunctional thin films. Thin Solid Films, 2012, 520, 5516-5520.	1.8	15
29	Haptic Guidance Based on All-Optical Ultrasound Distance Sensing for Safer Minimally Invasive Fetal Surgery. Journal of Medical Robotics Research, 2018, 03, 1841001.	1.2	14
30	Ultrasonic Needle Tracking with a Fibre-Optic Ultrasound Transmitter for Guidance of Minimally Invasive Fetal Surgery. Lecture Notes in Computer Science, 2017, 10434, 637-645.	1.3	14
31	Broadband All-Optical Plane-Wave Ultrasound Imaging System Based on a Fabry-Perot Scanner. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1007-1016.	3.0	13
32	CuInS ₂ Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging. Advanced Materials Interfaces, 2021, 8, 2100518.	3.7	13
33	Freehand and video-rate all-optical ultrasound imaging. Ultrasonics, 2021, 116, 106514.	3.9	10
34	PDMS composites with photostable NIR dyes for multi-modal ultrasound imaging. MRS Advances, 2022, 7, 499-503.	0.9	6
35	Optically Generated Ultrasound for Intracoronary Imaging. Frontiers in Cardiovascular Medicine, 2020, 7, 525530.	2.4	5
36	Antimicrobial Surfaces: Dual-Mechanism Antimicrobial Polymer-ZnO Nanoparticle and Crystal Violet-Encapsulated Silicone (Adv. Funct. Mater. 9/2015). Advanced Functional Materials, 2015, 25, 1366-1366.	14.9	4

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37	Real-Time, Video-Rate and Depth-Resolved Imaging of Radio-Frequency Ablation Using All-Optical Ultrasound. , 2018, , .		4
38	Modelling and measurement of laser-generated focused ultrasound: Can interventional transducers achieve therapeutic effects?. Journal of the Acoustical Society of America, 2021, 149, 2732-2742.	1.1	2
39	of a Novel Light-activated Antimicrobial Coating to Disinfect Computer Keyboards in the Clinical Ward Environment. American Journal of Infection Control, 2013, 41, S35-S36.	2.3	1
40	Advanced Compositional Analysis of Nanoparticle-polymer Composites Using Direct Fluorescence Imaging. Journal of Visualized Experiments, 2016, , .	0.3	1
41	Reconfigurable 1.5D Source Arrays for Improved Elevational Focussing in All-Optical Ultrasound Imaging. , 2018, , .		0
42	TCT CONNECT-373 Optical Ultrasound: A New Imaging Paradigm Allowing Real-Time Visualization of In Situ Fenestration of Aortic Endovascular Grafts During Aneurysm Repair. Journal of the American College of Cardiology, 2020, 76, B160-B161.	2.8	0
43	CuInS ₂ Quantum Dot and Polydimethylsiloxane Nanocomposites for All-Optical Ultrasound and Photoacoustic Imaging (Adv. Mater. Interfaces 20/2021). Advanced Materials Interfaces, 2021, 8, 2170114.	3.7	0
44	Direct Model-Based Inversion for Improved Freehand Optical Ultrasound Imaging. , 2021, , .		0