

# Yaochun Shen

## List of Publications by Year in descending order

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145  
papers

5,720  
citations

76326

40  
h-index

82547

72  
g-index

151  
all docs

151  
docs citations

151  
times ranked

4349  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and identification of explosives using terahertz pulsed spectroscopic imaging. Applied Physics Letters, 2005, 86, 241116.	3.3	582
2	Terahertz pulsed spectroscopy and imaging for pharmaceutical applications: A review. International Journal of Pharmaceutics, 2011, 417, 48-60.	5.2	268
3	Ultrabroadband terahertz radiation from low-temperature-grown GaAs photoconductive emitters. Applied Physics Letters, 2003, 83, 3117-3119.	3.3	180
4	Analysis of Coating Structures and Interfaces in Solid Oral Dosage Forms by Three Dimensional Terahertz Pulsed Imaging. Journal of Pharmaceutical Sciences, 2007, 96, 330-340.	3.3	179
5	Temperature-dependent low-frequency vibrational spectra of purine and adenine. Applied Physics Letters, 2003, 82, 2350-2352.	3.3	170
6	Preparation, Structure, and Properties of Three-Dimensional Ordered $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Nanoparticulate Film. Chemistry of Materials, 2000, 12, 790-794.	6.7	166
7	iParker—A New Smart Car-Parking System Based on Dynamic Resource Allocation and Pricing. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2637-2647.	8.0	159
8	Advances in Photoacoustic Noninvasive Glucose Testing. Clinical Chemistry, 1999, 45, 1587-1595.	3.2	156
9	Development and Application of Terahertz Pulsed Imaging for Nondestructive Inspection of Pharmaceutical Tablet. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 407-415.	2.9	150
10	Analysis of sustained-release tablet film coats using terahertz pulsed imaging. Journal of Controlled Release, 2007, 119, 253-261.	9.9	145
11	Generation and detection of ultrabroadband terahertz radiation using photoconductive emitters and receivers. Applied Physics Letters, 2004, 85, 164-166.	3.3	144
12	Non-destructive quantification of pharmaceutical tablet coatings using terahertz pulsed imaging and optical coherence tomography. Optics and Lasers in Engineering, 2011, 49, 361-365.	3.8	120
13	Terahertz In-Line Sensor for Direct Coating Thickness Measurement of Individual Tablets During Film Coating in Real-Time. Journal of Pharmaceutical Sciences, 2011, 100, 1535-1544.	3.3	120
14	Smart Parking Guidance, Monitoring and Reservations: A Review. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 6-16.	3.8	118
15	Terahertz Sensor for Non-Contact Thickness and Quality Measurement of Automobile Paints of Varying Complexity. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 432-439.	3.1	110
16	Elimination of scattering effects in spectral measurement of granulated materials using terahertz pulsed spectroscopy. Applied Physics Letters, 2008, 92, .	3.3	105
17	Terahertz time-domain spectroscopy of glucose and uric Acid. Journal of Biological Physics, 2003, 29, 117-121.	1.5	97
18	Recent Advances in the Development of Materials for Terahertz Metamaterial Sensing. Advanced Optical Materials, 2022, 10, .	7.3	92

#	ARTICLE	IF	CITATIONS
19	Theoretical Modeling of a Photoconductive Antenna in a Terahertz Pulsed System. IEEE Transactions on Antennas and Propagation, 2013, 61, 1538-1546.	5.1	89
20	Sensitization of nanocrystalline TiO <sub>2</sub> electrode with quantum sized CdSe and ZnTCPC molecules. Chemical Physics Letters, 1997, 270, 145-151.	2.6	83
21	Applications of terahertz pulsed imaging to sustained-release tablet film coating quality assessment and dissolution performance. Journal of Controlled Release, 2008, 127, 79-87.	9.9	81
22	The use of Fourier-transform infrared spectroscopy for the quantitative determination of glucose concentration in whole blood. Physics in Medicine and Biology, 2003, 48, 2023-2032.	3.0	78
23	Far-infrared vibrational modes of polycrystalline saccharides. Vibrational Spectroscopy, 2004, 35, 139-143.	2.2	75
24	Delayed Release Tablet Dissolution Related to Coating Thickness by Terahertz Pulsed Image Mapping. Journal of Pharmaceutical Sciences, 2008, 97, 1543-1550.	3.3	70
25	Hardness and Density Distributions of Pharmaceutical Tablets Measured by Terahertz Pulsed Imaging. Journal of Pharmaceutical Sciences, 2013, 102, 2179-2186.	3.3	70
26	Measurement of the Intertablet Coating Uniformity of a Pharmaceutical Pan Coating Process With Combined Terahertz and Optical Coherence Tomography In-Line Sensing. Journal of Pharmaceutical Sciences, 2017, 106, 1075-1084.	3.3	69
27	Terahertz pulsed imaging as an analytical tool for sustained-release tablet film coating. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 71, 117-123.	4.3	64
28	The design of second-order nonlinear optical chromophores exhibiting blue-shifted absorption and large nonlinearities: the role of the combined conjugation bridge. Chemical Communications, 2001, , 171-172.	4.1	58
29	Quantifying Pharmaceutical Film Coating with Optical Coherence Tomography and Terahertz Pulsed Imaging: An Evaluation. Journal of Pharmaceutical Sciences, 2015, 104, 3377-3385.	3.3	55
30	Chemical mapping using reflection terahertz pulsed imaging. Semiconductor Science and Technology, 2005, 20, S254-S257.	2.0	54
31	Effects of film coating thickness and drug layer uniformity on in vitro drug release from sustained-release coated pellets: A case study using terahertz pulsed imaging. International Journal of Pharmaceutics, 2009, 382, 151-159.	5.2	53
32	Fabrication, characterization and photovoltaic study of a TiO <sub>2</sub> microporous electrode. Thin Solid Films, 1995, 257, 144-146.	1.8	48
33	Characterization of Crystalline Phase Transformations in Theophylline by Time-Domain Terahertz Spectroscopy. Spectroscopy Letters, 2006, 39, 215-224.	1.0	46
34	Further investigation on water antennas. IET Microwaves, Antennas and Propagation, 2015, 9, 735-741.	1.4	46
35	Spinning disk for compressive imaging. Optics Letters, 2012, 37, 46.	3.3	44
36	Review of Terahertz Pulsed Imaging for Pharmaceutical Film Coating Analysis. Sensors, 2020, 20, 1441.	3.8	43

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37	Vibrational spectra of nucleosides studied using terahertz time-domain spectroscopy. <i>Vibrational Spectroscopy</i> , 2004, 35, 111-114.	2.2	42
38	Monitoring the Film Coating Unit Operation and Predicting Drug Dissolution Using Terahertz Pulsed Imaging. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 4866-4876.	3.3	42
39	Non-Destructive Evaluation of Polymer Coating Structures on Pharmaceutical Pellets Using Full-Field Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 161-166.	3.3	42
40	Improvement in photoelectric conversion of a phthalocyanine-sensitized TiO <sub>2</sub> electrode by doping with porphyrin. <i>Chemical Physics</i> , 1998, 231, 95-103.	1.9	41
41	Comparison of Terahertz Pulse Imaging and Near-Infrared Spectroscopy for Rapid, Non-Destructive Analysis of Tablet Coating Thickness and Uniformity. <i>Journal of Pharmaceutical Innovation</i> , 2007, 2, 29-36.	2.4	41
42	Impact of Processing Conditions on Inter-tablet Coating Thickness Variations Measured by Terahertz In-Line Sensing. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2513-2522.	3.3	41
43	Nondestructive testing of marine protective coatings using terahertz waves with stationary wavelet transform. <i>Ocean Engineering</i> , 2016, 111, 582-592.	4.3	41
44	Determination of Glucose Concentration in Whole Blood using Fourier-Transform Infrared Spectroscopy. <i>Journal of Biological Physics</i> , 2003, 29, 129-133.	1.5	38
45	Terahertz photoconductive antenna efficiency. , 2011, , .		38
46	Measurement of residual stress using laser-generated ultrasound. <i>International Journal of Pressure Vessels and Piping</i> , 2010, 87, 762-765.	2.6	36
47	Trapping and rotating of a metallic particle trimer with optical vortex. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	35
48	Co-sensitization of microporous TiO <sub>2</sub> electrodes with dye molecules and quantum-sized semiconductor particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 175, 135-140.	4.7	34
49	Measurement of the optical absorption coefficient of a liquid by use of a time-resolved photoacoustic technique. <i>Applied Optics</i> , 2000, 39, 4007.	2.1	34
50	Real-time detection of laser-induced transient gratings and surface acoustic wave pulses with a Michelson interferometer. <i>Journal of Applied Physics</i> , 1997, 82, 4758-4762.	2.5	32
51	Terahertz generation from coherent optical phonons in a biased GaAs photoconductive emitter. <i>Physical Review B</i> , 2004, 69, .	3.2	32
52	Fault Location Method in Power Network by Applying Accurate Information of Arrival Time Differences of Modal Traveling Waves. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 3124-3132.	11.3	32
53	Terahertz pulsed spectroscopic imaging using optimized binary masks. <i>Applied Physics Letters</i> , 2009, 95, 231112.	3.3	31
54	Investigating dissolution performance critical areas on coated tablets: A case study using terahertz pulsed imaging. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 392-402.	3.3	31

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55	High resolution corneal and single pulse imaging with line field spectral domain optical coherence tomography. <i>Optics Express</i> , 2016, 24, 12395.	3.4	31
56	Terahertz plasmonic phase-jump manipulator for liquid sensing. <i>Nanophotonics</i> , 2020, 9, 3011-3021.	6.0	30
57	Photosensitization of TiO <sub>2</sub> semiconductor with porphyrin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 114, 209-212.	3.9	29
58	Terahertz spectroscopy of explosive materials. , 2004, , .		29
59	HR-Si prism coupled tightly confined spoof surface plasmon polaritons mode for terahertz sensing. <i>Optics Express</i> , 2019, 27, 34067.	3.4	29
60	An efficient method-development strategy for quantitative chemical imaging using terahertz pulse spectroscopy. <i>Journal of Pharmaceutical Innovation</i> , 2006, 1, 63-75.	2.4	28
61	A Review of the Applications of OCT for Analysing Pharmaceutical Film Coatings. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2700.	2.5	28
62	Vision-based system for simultaneous monitoring of shaft rotational speed and axial vibration using non-projection composite fringe pattern. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 765-776.	8.0	28
63	Neural network-based hybrid signal processing approach for resolving thin marine protective coating by terahertz pulsed imaging. <i>Ocean Engineering</i> , 2019, 173, 58-67.	4.3	28
64	Nondestructive analysis of automotive paints with spectral domain optical coherence tomography. <i>Applied Optics</i> , 2016, 55, 3695.	2.1	25
65	Pharmaceutical Film Coating Catalog for Spectral Domain Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3171-3176.	3.3	25
66	Second-order optical nonlinearity study of CdS nanoparticles via hyper-Rayleigh scattering. <i>Journal of Physics and Chemistry of Solids</i> , 2001, 62, 903-906.	4.0	24
67	New nonlinear optical chromophores exhibiting good transparency and large nonlinearity: synthesis and characterization of chromophores with stilbene and ring-locked triene as a combined conjugation bridge. <i>Journal of Materials Chemistry</i> , 2002, 12, 863-867.	6.7	24
68	Aggregation and the photoelectric behavior of tetrasulfonated phthalocyanine adsorbed on a TiO <sub>2</sub> microporous electrode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996, 99, 71-74.	3.9	22
69	Deformation velocity imaging using optical coherence tomography and its applications to the cornea. <i>Biomedical Optics Express</i> , 2017, 8, 5579.	2.9	22
70	Non-destructive analysis of flake properties in automotive paints with full-field optical coherence tomography and 3D segmentation. <i>Optics Express</i> , 2017, 25, 18614.	3.4	22
71	3D chemical mapping using terahertz pulsed imaging. , 2005, , .		21
72	Real-time monitoring of structural vibration using spectral-domain optical coherence tomography. <i>Optics and Lasers in Engineering</i> , 2011, 49, 127-131.	3.8	21

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73	Investigating Intra-Tablet Coating Uniformity With Spectral-Domain Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 546-553.	3.3	20
74	Optical spanner for nanoparticle rotation with focused optical vortex generated through a Pancharatnam-Berry phase metalens. <i>Applied Optics</i> , 2021, 60, 4820.	1.8	19
75	Self-assembled multilayers of alternating gold nanoparticles and dithiols: approaching to superlattice. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000, 175, 217-223.	4.7	16
76	A Novel Sub-THz Photomixer With Nano-Trapezoidal Electrodes. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2014, 4, 501-508.	3.1	16
77	Quasi-perfect vortices generated by Pancharatnam-Berry phase metasurfaces for optical spanners and OAM communication. <i>Scientific Reports</i> , 2022, 12, 1053.	3.3	16
78	Current-voltage characteristics of complex films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 237, 165-168.	2.1	15
79	Graphene/Insulator Stack Based Ultrasensitive Terahertz Sensor With Surface Plasmon Resonance. <i>IEEE Photonics Journal</i> , 2017, 9, 1-11.	2.0	15
80	Scan-Less Line Field Optical Coherence Tomography, with Automatic Image Segmentation, as a Measurement Tool for Automotive Coatings. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 351.	2.5	15
81	Trapping waves with tunable prism-coupling terahertz metasurfaces absorber. <i>Optics Express</i> , 2019, 27, 25647.	3.4	15
82	Efficient and Accurate Measurement of Absorption Cross Section of a Lossy Object in Reverberation Chamber Using Two One-Antenna Methods. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 686-693.	2.2	14
83	Technique for minimising the effects of ground plane on planar ultra-wideband monopole antennas. <i>IET Microwaves, Antennas and Propagation</i> , 2012, 6, 510.	1.4	13
84	Nonlinear Optical Response of Colloidal Gold Nanoparticles Studied by Hyper-Rayleigh Scattering Technique. <i>Chemistry Letters</i> , 2000, 29, 1140-1141.	1.3	12
85	Arylaldehydes-pentafluorophenyl Hydrazones as Second-order Nonlinear Optical Chromophores: A Novel Approach for Remarkably Defeating the Nonlinearity-transparency Trade-off. <i>Chemistry Letters</i> , 2002, 31, 232-233.	1.3	11
86	Observation of far-infrared emission from excited cytosine molecules. <i>Applied Physics Letters</i> , 2005, 87, 011105.	3.3	10
87	Line-Field Optical Coherence Tomography as a tool for In vitro characterization of corneal biomechanics under physiological pressures. <i>Scientific Reports</i> , 2019, 9, 6321.	3.3	10
88	Cosensitization and photoelectric conversion of a nanostructured TiO <sub>2</sub> electrode with tetrasulfonated porphyrins. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 659.	1.7	9
89	FDTD-based quantitative analysis of terahertz wave detection for multilayered structures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 2285.	1.5	9
90	Characterization of Electrical-Thermal-Mechanical Deformation of Bonding Wires Under Silicone Gel Using LF-OCT. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 11045-11054.	7.9	9

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91	Vertically-oriented nanoparticle dimer based on focused plasmonic trapping. Optics Express, 2016, 24, 16052.	3.4	8
92	Simultaneous optical coherence tomography and Scheimpflug imaging using the same incident light. Optics Express, 2020, 28, 39660.	3.4	8
93	Fabrication, characterization and photovoltaic study of a GaTSPcâ€“CdS/TiO2 particulate film. Journal of Materials Chemistry, 1997, 7, 737-740.	6.7	7
94	Synthesis and Nonlinear Optical Properties of p-(Dimethylamino)benzylidene Dyes Containing Different Acceptors. Chemistry Letters, 2000, 29, 1426-1427.	1.3	7
95	Terahertz pulsed imaging of surface variations on pharmaceutical tablets. , 2010, , .		7
96	Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	7
97	Sub-surface imaging of soiled cotton fabric using full-field optical coherence tomography. Optics Express, 2019, 27, 13951.	3.4	7
98	FDTD Study of a Novel Terahertz Emitter with Electrical Field Enhancement Using Surface Plasmon Resonance. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2010, 6, 153-156.	0.4	6
99	Angular resonance absorption spectra of Langmuir-Blodgett films studied by the photoacoustic technique. Thin Solid Films, 1994, 248, 36-40.	1.8	5
100	Blood glucose measurements by photoacoustics. , 1999, , .		5
101	Time-resolved photoacoustics for glucose concentration measurement: theory and experiment. , 1999, , .		5
102	Fast Blur Detection and Parametric Deconvolution of Retinal Fundus Images. Lecture Notes in Computer Science, 2017, , 194-201.	1.3	5
103	Pharmaceutical tablet hardness measurements with thz pulsed imaging. , 2009, , .		4
104	Terahertz applications in the pharmaceutical industry. , 2013, , 579-614.		4
105	Broadband U-shaped water antenna for DVB-H applications. , 2014, , .		4
106	Steps towards numerical verification of the terahertz inâ€“line measurement of tablet mixing by means of discrete element modelling. IET Microwaves, Antennas and Propagation, 2018, 12, 1775-1779.	1.4	4
107	Differentiating Generic versus Branded Pharmaceutical Tablets Using Ultra-High-Resolution Optical Coherence Tomography. Coatings, 2019, 9, 326.	2.6	4
108	Optical manipulation of Rayleigh particles by metalensesâ€”a numerical study. Applied Optics, 2019, 58, 5794.	1.8	4

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109	Optically transparent metasurfaces based on ITO: Numerical design and measurements in THz domain. Applied Physics Express, 2020, 13, 102002.	2.4	4
110	Nondestructive in situ monitoring of pea seeds germination using optical coherence tomography. Plant Direct, 2022, 6, .	1.9	4
111	Light-induced Difference Terahertz Spectroscopy. Journal of Biological Physics, 2003, 29, 135-139.	1.5	3
112	Real-time in situ measurement of particle size in flowing powders by terahertz time-domain spectroscopy. , 2009, , .		3
113	Near-infrared spectroscopy for non-destructive coating analysis calibrated by Terahertz Pulsed Imaging. , 2010, , .		3
114	Subsampled terahertz data reconstruction based on spatio-temporal dictionary learning. , 2015, 43, 1-7.		3
115	Applications of optical coherence tomography in the non-contact assessment of automotive paints. , 2017, , .		3
116	Interaction between tetrasulfophthalocyanines and colloidal titanium dioxide and photoelectric behavior on sensitized microporous TiO2 electrodes. Science Bulletin, 1997, 42, 1447-1451.	1.7	2
117	Excitation of higher harmonics in transient laser gratings by an ablative mechanism. Applied Physics Letters, 1998, 73, 1640-1642.	3.3	2
118	Synthesis and second-order optical nonlinearity of carbazolyl-substituted furan chromophores with high thermal stability and good transparency. Journal of Chemical Research, 2001, 2001, 418-420.	1.3	2
119	In-line monitoring of coating thickness of pharmaceutical tablets during production scale film coating by Terahertz imaging. , 2010, , .		2
120	A further study of THz photoconductive antennas. , 2012, , .		2
121	Studying the pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2016, , .		2
122	Reply to "Comments on "Theoretical Modeling of a Photoconductive Antenna in a Terahertz Pulsed System" IEEE Transactions on Antennas and Propagation, 2016, 64, 2585-2585.	5.1	2
123	Quasi-tomography by free space line field spectral domain optical coherence reflectometry. Measurement Science and Technology, 2020, 31, 065203.	2.6	2
124	Virtual probe stimulated tip-enhanced Raman spectroscopy: The extreme field enhancement in virtual-real probe dimer. Journal of Applied Physics, 2021, 129, 133104.	2.5	2
125	Remote radar-camera vital sign monitoring system using a graph-based extraction algorithm. , 2021, , .		2
126	Energy Harvesting Using THz Electronics. Engineering Materials, 2014, , 241-265.	0.6	2



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127	Photoacoustic investigation of resonance absorption on corrugated surfaces. Applied Physics A: Materials Science and Processing, 1996, 62, 263-268.	2.3	1
128	Intensity distribution of light emitted from a fiber tip mapped by short surface acoustic wave pulses. Ultramicroscopy, 1998, 71, 225-229.	1.9	1
129	Neural Network-based non-destructive quantification of thin coating by terahertz pulsed imaging in the frequency domain. , 2010, , .		1
130	Studying pharmaceutical tablet coating process with real-time terahertz in-line sensing. , 2013, , .		1
131	Spatio-spectral data reconstruction in terahertz imaging. , 2014, , .		1
132	Validating terahertz in-line measurement of tablet mixing with discrete element modelling. , 2017, , .		1
133	Terahertz waveform selection of a pharmaceutical film coating process using a recurrent network. , 2021, , .		1
134	Optimizing Terahertz Waveform Selection of a Pharmaceutical Film Coating Process Using Recurrent Network. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 392-400.	3.1	1
135	Nonlinear surface acoustic waves launched by excitation of higher harmonics in transient laser gratings. , 1999, , .		0
136	<title>Hyper-Rayleigh scattering of CdS nanoparticles with different surfaces in solution</title>. , 2000, 3937, 123.		0
137	Nonlinear optical properties of rhodamine aggregates in solution at different pH studied by hyper-Rayleigh scattering technique. , 2000, 3939, 260.		0
138	Role of combined bridge on the second-order nonlinear optical properties of organic stilbazolium salts. , 2001, 4580, 601.		0
139	Multiphoton absorption and fluorescence of an organic compound in THF pumped with nanosecond laser. , 2001, 4602, 284.		0
140	Optical Coherence Tomography-based Structural Vibration Sensor System. , 2011, , .		0
141	Fabric Defect Detection Using Wavelet-Enhanced Single-Point Photoelectric Sensing System. Applied Mechanics and Materials, 0, 162, 497-504.	0.2	0
142	The Application of Full-Field Optical Coherence Tomography on Evaluating Film Coating of Pharmaceutical Pellets. , 2015, , .		0
143	Investigation of pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2015, , .		0
144	Spinning disk as a spatial light modulator for rapid infrared imaging. IET Microwaves, Antennas and Propagation, 2017, 11, 317-323.	1.4	0

#	ARTICLE	IF	CITATIONS
145	Fabrication of highly reliable joint based on Cu@Ni@Sn double-layer powder for high temperature application. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2019, 2019, 000075-000084.	0.2	0