

Wilhelm Pflöging

List of Publications by Year in descending order

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156
papers

3,009
citations

185998

28
h-index

197535

49
g-index

160
all docs

160
docs citations

160
times ranked

2949
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of laser electrode processing for development and manufacturing of lithium-ion batteries. <i>Nanophotonics</i> , 2018, 7, 549-573.	2.9	134
2	SMA microgripper with integrated antagonism. <i>Sensors and Actuators A: Physical</i> , 2000, 83, 208-213.	2.0	129
3	Laser surface textured titanium alloy (Ti-6Al-4V) – Part II – Studies on bio-compatibility. <i>Applied Surface Science</i> , 2015, 357, 750-758.	3.1	115
4	A new approach for rapid electrolyte wetting in tape cast electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14918-14926.	5.2	114
5	Three-dimensional silicon/carbon core-shell electrode as an anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 279, 13-20.	4.0	113
6	Microfluidic chips for the crystallization of biomacromolecules by counter-diffusion and on-chip crystal X-ray analysis. <i>Lab on A Chip</i> , 2009, 9, 1412.	3.1	102
7	A chip-based platform for the in vitro generation of tissues in three-dimensional organization. <i>Lab on A Chip</i> , 2007, 7, 777-785.	3.1	96
8	The use of femtosecond laser ablation as a novel tool for rapid micro-mechanical sample preparation. <i>Materials and Design</i> , 2017, 121, 109-118.	3.3	92
9	Laser surface textured titanium alloy (Ti-6Al-4V): Part 1 – Surface characterization. <i>Applied Surface Science</i> , 2015, 355, 104-111.	3.1	89
10	Laser-assisted modification of polystyrene surfaces for cell culture applications. <i>Applied Surface Science</i> , 2007, 253, 9177-9184.	3.1	87
11	Laser-printing and femtosecond-laser structuring of LiMn ₂ O ₄ composite cathodes for Li-ion microbatteries. <i>Journal of Power Sources</i> , 2014, 255, 116-124.	4.0	83
12	Laser- and UV-assisted modification of polystyrene surfaces for control of protein adsorption and cell adhesion. <i>Applied Surface Science</i> , 2009, 255, 5453-5457.	3.1	71
13	Influence of laser pulse duration on the electrochemical performance of laser structured LiFePO ₄ composite electrodes. <i>Journal of Power Sources</i> , 2016, 304, 24-32.	4.0	71
14	3D silicon/graphite composite electrodes for high-energy lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 317, 502-508.	2.6	64
15	Recent progress in laser texturing of battery materials: a review of tuning electrochemical performances, related material development, and prospects for large-scale manufacturing. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 012002.	6.3	62
16	Laser-Induced Breakdown Spectroscopy of Laser-Structured Li(NiMnCo) ₂ O ₄ Electrodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A19-A26.	1.3	60
17	A Novel Surface Texture Shape for Directional Friction Control. <i>Tribology Letters</i> , 2018, 66, 1.	1.2	53
18	Laser microstructuring and annealing processes for lithium manganese oxide cathodes. <i>Applied Surface Science</i> , 2011, 257, 9968-9976.	3.1	49

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19	The Ultrafast Laser Ablation of Li(Ni _{0.6} Mn _{0.2} Co _{0.2})O ₂ Electrodes with High Mass Loading. Applied Sciences (Switzerland), 2019, 9, 4067.	1.3	46
20	Industrial applications of ultrafast laser processing. MRS Bulletin, 2016, 41, 984-992.	1.7	45
21	The Friction Reducing Effect of Square-Shaped Surface Textures under Lubricated Line-Contacts – An Experimental Study. Lubricants, 2016, 4, 26.	1.2	39
22	The use of anisotropic texturing for control of directional friction. Tribology International, 2017, 113, 169-181.	3.0	39
23	Tailored Surface-Enhanced Raman Nanopillar Arrays Fabricated by Laser-Assisted Replication for Biomolecular Detection Using Organic Semiconductor Lasers. ACS Nano, 2015, 9, 260-270.	7.3	38
24	Laser micro-structuring of magnetron-sputtered SnO _x thin films as anode material for lithium ion batteries. Microsystem Technologies, 2011, 17, 225-232.	1.2	35
25	Control of wettability of hydrogenated amorphous carbon thin films by laser-assisted micro- and nanostructuring. Applied Surface Science, 2011, 257, 7907-7912.	3.1	34
26	Rapid fabrication of microcomponents - UV-laser assisted prototyping, laser micro-machining of mold inserts and replication via photomolding. Microsystem Technologies, 2002, 9, 67-74.	1.2	33
27	Laser-induced breakdown spectroscopy for the quantitative measurement of lithium concentration profiles in structured and unstructured electrodes. Journal of Materials Chemistry A, 2019, 7, 5656-5665.	5.2	32
28	Bi ₂ O ₃ nanoparticles encapsulated in surface mounted metal-organic framework thin films. Nanoscale, 2016, 8, 6468-6472.	2.8	30
29	Laser micro-welding of aluminum alloys: experimental studies and numerical modeling. International Journal of Advanced Manufacturing Technology, 2010, 50, 207-215.	1.5	29
30	Thermal behaviour of Li _x MeO ₂ (Me = Co or Ni + Mn + Co) cathode materials. Physical Chemistry Chemical Physics, 2017, 19, 11920-11930.	1.3	29
31	3D Structures in Battery Materials. Journal of Laser Micro Nanoengineering, 2012, 7, 97-104.	0.4	29
32	Rapid fabrication and replication of metal, ceramic and plastic mould inserts for application in microsystem technologies. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2003, 217, 53-63.	1.1	28
33	Conical surface structures on model thin-film electrodes and tape-cast electrode materials for lithium-ion batteries. Applied Physics A: Materials Science and Processing, 2013, 112, 77-85.	1.1	28
34	Structural and chemical characterization of BN thin films deposited onto Si(100) and graphite substrates by pulsed laser deposition. Diamond and Related Materials, 1996, 5, 525-529.	1.8	27
35	Laser micromachining for applications in thin film technology. Applied Surface Science, 2000, 154-155, 633-639.	3.1	24
36	Laser micromachining and light induced reaction injection molding as suitable process sequence for the rapid fabrication of microcomponents. Microsystem Technologies, 2002, 7, 209-214.	1.2	23

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37	Development of high power density cathode materials for Li-ion batteries. International Journal of Materials Research, 2008, 99, 1171-1176.	0.1	23
38	Laser structured Cu foil for high-performance lithium-ion battery anodes. Journal of Applied Electrochemistry, 2017, 47, 829-837.	1.5	22
39	KrF-excimer laser pretreatment and metallization of polymers. Applied Surface Science, 1997, 109-110, 264-269.	3.1	21
40	A polymerized C60 coating enhancing interfacial stability at three-dimensional LiCoO ₂ in high-potential regime. Journal of Power Sources, 2015, 298, 1-7.	4.0	21
41	Improved Capacity Retention of SiO ₂ -Coated LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ Cathode Material for Lithium-Ion Batteries. Applied Sciences (Switzerland), 2019, 9, 3671.	1.3	21
42	Electrochemical Performance of Thick-Film Li(Ni _{0.6} Mn _{0.2} Co _{0.2})O ₂ Cathode with Hierarchic Structures and Laser Ablation. Nanomaterials, 2021, 11, 2962.	1.9	21
43	Diode laser heat treatment of lithium manganese oxide films. Applied Surface Science, 2012, 258, 5146-5152.	3.1	20
44	Structure and chemical composition of BN thin films grown by pulsed-laser deposition (PLD). Applied Surface Science, 1995, 86, 165-169.	3.1	19
45	New simplified methods for patterning the rear contact of RP-PERC high-efficiency solar cells. , 2000, , .		19
46	Designing 3D Conical-Shaped Lithium-Ion Microelectrodes. Journal of the Electrochemical Society, 2014, 161, A302-A307.	1.3	19
47	Research on the Methods for the Mass Production of Multi-Scale Organs-On-Chips. Polymers, 2018, 10, 1238.	2.0	19
48	Laser patterning and welding of transparent polymers for microfluidic device fabrication. , 2006, , .		18
49	Laser patterning and packaging of CCD-CE-Chips made of PMMA. Sensors and Actuators B: Chemical, 2009, 138, 336-343.	4.0	18
50	Femtosecond Laser Processing of Thick Film Cathodes and Its Impact on Lithium-Ion Diffusion Kinetics. Applied Sciences (Switzerland), 2019, 9, 3588.	1.3	18
51	Characterization and Laser Structuring of Aqueous Processed Li(Ni _{0.6} Mn _{0.2} Co _{0.2})O ₂ Thick-Film Cathodes for Lithium-Ion Batteries. Nanomaterials, 2021, 11, 1840.	1.9	18
52	Lithium Distribution in Structured Graphite Anodes Investigated by Laser-Induced Breakdown Spectroscopy. Applied Sciences (Switzerland), 2019, 9, 4218.	1.3	17
53	In Situ SEM Observation of Structured Si/C Anodes Reactions in an Ionic-Liquid-Based Lithium-Ion Battery. Applied Sciences (Switzerland), 2019, 9, 956.	1.3	17
54	Pretreatment by laser radiation and its effect on adhesion in the metallization of poly(butylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.4	16

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55	Excimer laser material processing: state-of-the-art and new approaches in microsystem technology. , 2006, , .		16
56	Properties and applications of single-component (Al ₂ O ₃ , ZrO ₂ , BN) and multi-component films (ZrO ₂ ,) Tj ETQq0 0.0,rgBT /Overlock 10	2.2	14
57	<title>Laser micromachining of mold inserts for replication techniques: state of the art and applications</title>. , 2001, 4274, 331.		14
58	Direct laser interference patterning and ultrafast laser-induced micro/nano structuring of current collectors for lithium-ion batteries. Proceedings of SPIE, 2016, , .	0.8	14
59	Tailoring of surface properties by removal and deposition with laser radiation. Applied Surface Science, 1995, 86, 266-277.	3.1	13
60	Laser-assisted modification of polymers for microfluidic, micro-optics, and cell culture applications. , 2007, , .		13
61	The Effect of Silicon Grade and Electrode Architecture on the Performance of Advanced Anodes for Next Generation Lithium-Ion Cells. Nanomaterials, 2021, 11, 3448.	1.9	13
62	Laser-assisted welding of transparent polymers for microchemical engineering and life science. , 2005, , .		12
63	Laser-assisted structuring and modification of LiCoO ₂ thin films. , 2009, , .		12
64	Laser Micro and Nano Processing of Metals , Ceramics , and Polymers. Springer Series in Materials Science, 2013, , 319-374.	0.4	12
65	Organic semiconductor distributed feedback laser pixels for lab-on-a-chip applications fabricated by laser-assisted replication. Faraday Discussions, 2014, 174, 153-164.	1.6	12
66	Laser generated microstructures in tape cast electrodes for rapid electrolyte wetting: new technical approach for cost efficient battery manufacturing. Proceedings of SPIE, 2014, , .	0.8	12
67	A review: Learning from the flight of beetles. Computers in Biology and Medicine, 2021, 133, 104397.	3.9	12
68	Microstructure devices generation by selective laser melting. , 2007, 6459, 289.		11
69	Comparative studies of laser annealing technique and furnace annealing by X-ray diffraction and Raman analysis of lithium manganese oxide thin films for lithium-ion batteries. Thin Solid Films, 2013, 531, 160-171.	0.8	11
70	Transparent thin thermoplastic biochip by injection-moulding and laser transmission welding. Microsystem Technologies, 2013, 19, 445-453.	1.2	11
71	Microstructure and corrosion behavior of laser induced periodic patterned titanium based alloy. Optics and Laser Technology, 2019, 116, 196-213.	2.2	11
72	Structure and chemical composition of BN thin films grown by pulsed-laser deposition. Diamond and Related Materials, 1995, 4, 370-374.	1.8	10

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73	Mould insert fabrication of a single-mode fibre connector alignment structure optimized by justified partial metallization. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 035008.	1.5	10
74	Recrystallisation towards a single texture component in heavily cold rolled tungsten (W) sheets and its impact on micromechanics. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 86, 105084.	1.7	10
75	Bio-inspired interfaces for easy-to-recycle lithium-ion batteries. <i>Extreme Mechanics Letters</i> , 2020, 34, 100594.	2.0	10
76	Laser polishing of additively manufactured Ti-6Al-4V: Microstructure evolution and material properties. <i>Journal of Laser Applications</i> , 2020, 32, .	0.8	10
77	Laser annealing of textured thin film cathode material for lithium ion batteries. <i>Proceedings of SPIE</i> , 2010, , .	0.8	9
78	Electrochemical behavior of a laser microstructured fluorine doped tin oxide anode layer with a plasma pretreatment for 3D battery systems. <i>RSC Advances</i> , 2014, 4, 4247-4252.	1.7	9
79	Investigation of Fast-Charging and Degradation Processes in 3D Silicon-Graphite Anodes. <i>Nanomaterials</i> , 2022, 12, 140.	1.9	9
80	Enabling high rate capability, low internal resistance, and excellent cyclability for vanadium redox flow batteries utilizing ultrafast laser-structured graphite felt. <i>Electrochimica Acta</i> , 2020, 344, 136171.	2.6	8
81	Modelling and Optimisation of Laser-Structured Battery Electrodes. <i>Nanomaterials</i> , 2022, 12, 1574.	1.9	8
82	Laser micromachining of polymeric mold inserts for rapid prototyping of PMMA devices via photomolding. , 2002, 4637, 318.		7
83	Direct laser-assisted processing of polymers for microfluidic and micro-optical applications. , 2003, , .		7
84	Laser modification and characterization of Li-Mn-O thin film cathodes for lithium-ion batteries. <i>Proceedings of SPIE</i> , 2011, , .	0.8	7
85	Effect of laser structured micro patterns on the polyvinyl butyral/oxide/steel interface stability. <i>Progress in Organic Coatings</i> , 2020, 147, 105766.	1.9	7
86	Ultrafast laser microstructuring of LiFePO ₄ cathode material. , 2014, , .		6
87	Laser-printed/structured thick-film electrodes for Li-ion microbatteries. <i>Proceedings of SPIE</i> , 2014, , .	0.8	6
88	Laser moulding, a new low-cost fabrication process for micro- and nanostructured components. <i>Microsystem Technologies</i> , 2015, 21, 1543-1549.	1.2	6
89	Two-Step Laser Post-Processing for the Surface Functionalization of Additively Manufactured Ti-6Al-4V Parts. <i>Materials</i> , 2020, 13, 4872.	1.3	6
90	Fabrication and characterization of single-mode integrated polymer waveguide components. , 2004, , .		5

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91	Laser adjusted three-dimensional Li-Mn-O cathode architectures for secondary lithium-ion cells. Proceedings of SPIE, 2012, , .	0.8	5
92	Laser processes and analytics for high power 3D battery materials. , 2016, , .		5
93	Laser processing of thick Li(NiMnCo)O ₂ electrodes for lithium-ion batteries. Proceedings of SPIE, 2017, , .	0.8	5
94	Direct writing of a conducting polymer pattern in aqueous solution by using an ultrashort laser pulse. RSC Advances, 2017, 7, 38565-38569.	1.7	5
95	Spatial activity profiling along a fixed bed of powder catalyst during selective oxidation of propylene to acrolein. Catalysis Science and Technology, 2021, 11, 5781-5790.	2.1	5
96	Multiobjective Optimization of Laser Polishing of Additively Manufactured Ti-6Al-4V Parts for Minimum Surface Roughness and Heat-Affected Zone. Materials, 2022, 15, 3323.	1.3	5
97	Laser processing of SnO ₂ electrode materials for manufacturing of 3D micro-batteries. Proceedings of SPIE, 2011, , .	0.8	4
98	Manufacturing of advanced Li(NiMnCo)O ₂ electrodes for lithium-ion batteries. , 2015, , .		4
99	Post-mortem characterization of fs laser-generated micro-pillars in Li(Ni _{1/3} Mn _{1/3} Co _{1/3})O ₂ electrodes by laser-induced breakdown spectroscopy. , 2016, , .		4
100	Investigation of micro-structured Li(Ni _{1/3} Mn _{1/3} Co _{1/3})O ₂ cathodes by laser-induced breakdown spectroscopy. Proceedings of SPIE, 2017, , .	0.8	4
101	Effect of process parameters on surface texture generated by laser polishing of additively manufactured Ti-6Al-4V. , 2020, , .		4
102	Laser radiation: A tool for generation of defined thin film properties for application. Surface and Coatings Technology, 1995, 74-75, 1012-1019.	2.2	3
103	Surface analysis of films and film systems produced by pulsed laser deposition. Fresenius' Journal of Analytical Chemistry, 1995, 353, 729-733.	1.5	3
104	Laser Micromachining of Metallic Mold Inserts for Replication Techniques. Materials Research Society Symposia Proceedings, 2000, 617, 551.	0.1	3
105	Effect of surface topography on hydrophobicity and bacterial adhesion of polystyrene. , 2013, , .		3
106	Fs-laser microstructuring of laser-printed LiMn ₂ O ₄ electrodes for manufacturing of 3D microbatteries. Proceedings of SPIE, 2014, , .	0.8	3
107	Femtosecond laser structuring of novel electrodes for 3D fuel cell design with increased reaction surface. Materials Research Society Symposia Proceedings, 2015, 1777, 7-13.	0.1	3
108	Femtosecond laser patterning of lithium-ion battery separator materials: impact on liquid electrolyte wetting and cell performance. Proceedings of SPIE, 2015, , .	0.8	3

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109	Laser printing and femtosecond laser structuring of electrode materials for the manufacturing of 3D lithium-ion micro-batteries. Proceedings of SPIE, 2016, , .	0.8	3
110	Fabrication and characterization of silicon-based 3D electrodes for high-energy lithium-ion batteries. Proceedings of SPIE, 2017, , .	0.8	3
111	CCl ₄ -assisted CF ₄ etching of silicon in a microwave-assisted LDE (laser dry etching)-process. Applied Surface Science, 1996, 96-98, 496-500.	3.1	2
112	Patterning of polystyrene by UV-laser radiation for the fabrication of devices for patch clamping. , 2008, , .		2
113	Optimized Logistics of Manufacture Novel Electrolyte Filling Process for Lithium-ion Cells. ATZelextronik Worldwide, 2012, 7, 38-41.	0.1	2
114	Surface micro-structuring of intercalation cathode materials for lithium-ion batteries: a study of laser-assisted cone formation. Proceedings of SPIE, 2015, , .	0.8	2
115	Electrochemical and kinetic studies of ultrafast laser structured LiFePO ₄ electrodes. Proceedings of SPIE, 2015, , .	0.8	2
116	Laser interference patterning and laser-induced periodic surface structure formation on metallic substrates. , 2016, , .		2
117	Silicon-based 3D electrodes for high power lithium-ion battery. , 2017, , .		2
118	Laser-assisted surface processing for functionalization of polymers on micro- and nano-scale. Microsystem Technologies, 2020, 26, 1085-1091.	1.2	2
119	Lithium-Ion Batteryâ€™3D Micro-/Nano-Structuring, Modification and Characterization. Springer Series in Materials Science, 2020, , 313-347.	0.4	2
120	Novel Fabrication Process for the Integration of MEMS Devices with Thick Amorphous Soft Magnetic Field Concentrators. Materials Research Society Symposia Proceedings, 2007, 1052, 1.	0.1	1
121	Laser-assisted surface engineering of thin film electrode materials for lithium-ion batteries. Materials Research Society Symposia Proceedings, 2011, 1365, 1.	0.1	1
122	Influence of laser-generated surface structures on electrochemical performance of lithium cobalt oxide. Proceedings of SPIE, 2012, , .	0.8	1
123	Investigating the effect of surface topography on hydrophobicity and bacterial attachment on polystyrene. Surface Topography: Metrology and Properties, 2014, 2, 024003.	0.9	1
124	Femtosecond laser modification of Li(NiCoMn)O ₂ electrodes for lithium-ion batteries. , 2014, , .		1
125	Formation of nanostructures by femtosecond laser processing. , 2015, , .		1
126	Laser-induced breakdown spectroscopy as a powerful tool for characterization of laser modified composite materials. , 2016, , .		1

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127	Towards Reliable Organs-on-Chips and Humans-on-Chips. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 389-408.	0.7	1
128	Development of Laser Structured Silicon-based Anodes for Lithium-ion Batteries. , 2018, , .		1
129	Laser processing and functionalization of battery materials. , 2012, , .		1
130	International cooperation between Brazil and Germany in Materials Science. The Academic Society Journal, 0, , 1-2.	0.1	1
131	Laser-induced forward transfer as a versatile tool for developing silicon-based anode materials. , 2022, , .		1
132	Fabrication of functional polymeric prototypes for micro-fluidical and micro-optical applications. , 0, , .		0
133	Novel processing for a polymer patch clamping system. , 2009, , .		0
134	Increase of capacity retention by laser structuring of thin film battery materials. , 2011, , .		0
135	Laser-induced self-organizing surface structures on cathode materials for lithium-ion batteries. Proceedings of SPIE, 2013, , .	0.8	0
136	Thin film passivation of laser generated 3D micro patterns in lithium manganese oxide cathodes. , 2013, , .		0
137	Process and parameter optimisation for micro structuring of 3D freeform metallic surfaces: a comparative study of short-pulse (nanosecond) and ultrafast (picosecond, femtosecond) laser ablation. , 2017, , .		0
138	Laser-induced breakdown spectroscopy for studying the electrochemical impact of porosity variations in composite electrode materials. , 2017, , .		0
139	Electro-Chemical Modelling of Laser Structured Electrodes. ECS Meeting Abstracts, 2021, MA2021-01, 183-183.	0.0	0
140	Laser-assisted surface functionalization. , 2010, , .		0
141	The SMARTLAM 3D-I Concept: Design of Microsystems from Functional Elements Fabricated by Generative Manufacturing Technologies. IFIP Advances in Information and Communication Technology, 2014, , 147-160.	0.5	0
142	CCl ₄ -assisted CF ₄ etching of silicon in a microwave-assisted LDE (laser dry etching)-process. , 1996, , 496-500.		0
143	Patterning of Si(100) in Microwave-Assisted LDE (Laser Dry Etching). , 1996, , 1045-1048.		0
144	Laser in battery manufacturing: impact of intrinsic and artificial electrode porosity on chemical degradation and battery lifetime. , 2018, , .		0

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145	Comparing roll-to-roll and laser-assisted hot embossing for micro- and nanofabrication. , 2018, , .		0
146	(Invited) Manufacturing and Characterization of Advanced High Energy Silicon/Graphite Electrodes. ECS Meeting Abstracts, 2019, , .	0.0	0
147	(Invited) Tuning Electrochemical Performance of Lithium-Ion Cells By Introducing Laser-Generated Electrode Architectures. ECS Meeting Abstracts, 2019, , .	0.0	0
148	High Performance Electrode Architectures By Laser Structuring of Silicon-Graphite Anodes and Ultra-Thick Film NMC-Type Cathode Materials. ECS Meeting Abstracts, 2020, MA2020-02, 146-146.	0.0	0
149	Elemental Mapping of Entire Thick Film Electrodes By Laser-Induced Breakdown Spectroscopy. ECS Meeting Abstracts, 2020, MA2020-02, 95-95.	0.0	0
150	Ultrafast laser ablation of aqueous processed thick-film $\text{Li}(\text{Ni}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2})\text{O}_2$ cathodes with 3D architectures for lithium-ion batteries. , 2022, , .		0
151	Ablation behaviour of electrode materials during high power and high repetition rate laser structuring. , 2022, , .		0
152	Investigation of Manufacturing Strategies for Advanced Silicon/Graphite Composite Anodes for Lithium-Ion Cells. ECS Meeting Abstracts, 2022, MA2022-01, 410-410.	0.0	0
153	Aqueous Processed Thick-Film $\text{Li}(\text{Ni}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2})\text{O}_2$ Electrodes with 3D Architectures. ECS Meeting Abstracts, 2022, MA2022-01, 414-414.	0.0	0
154	3D Printing of Silicon-Based Anodes for Lithium-Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 427-427.	0.0	0
155	Upscaling of the Laser Structuring of Lithium-Ion Battery Electrodes - Process Development and Electrochemical Properties As a Function of Design Patterns. ECS Meeting Abstracts, 2022, MA2022-01, 417-417.	0.0	0
156	Evaluation of Electrochemical Performance Tuning By Laser Structuring of Electrodes and Its Impact on Cell Degradation Mechanisms. ECS Meeting Abstracts, 2022, MA2022-01, 413-413.	0.0	0