

HÃ¼seyin Enis Karahan

List of Publications by Year in descending order

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125
papers

14,584
citations

30070

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18647

119
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all docs

126
docs citations

126
times ranked

18413
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial Activity of Graphite, Graphite Oxide, Graphene Oxide, and Reduced Graphene Oxide: Membrane and Oxidative Stress. <i>ACS Nano</i> , 2011, 5, 6971-6980.	14.6	2,384
2	Scalable synthesis of hierarchically structured carbon nanotubeâ€“graphene fibres for capacitive energy storage. <i>Nature Nanotechnology</i> , 2014, 9, 555-562.	31.5	1,312
3	Lateral Dimension-Dependent Antibacterial Activity of Graphene Oxide Sheets. <i>Langmuir</i> , 2012, 28, 12364-12372.	3.5	498
4	Emergence of fiber supercapacitors. <i>Chemical Society Reviews</i> , 2015, 44, 647-662.	38.1	498
5	Sharper and Faster â€œNano Dartsâ€“Kill More Bacteria: A Study of Antibacterial Activity of Individually Dispersed Pristine Single-Walled Carbon Nanotube. <i>ACS Nano</i> , 2009, 3, 3891-3902.	14.6	493
6	Nanomaterials-based photothermal therapy and its potentials in antibacterial treatment. <i>Journal of Controlled Release</i> , 2020, 328, 251-262.	9.9	325
7	MXene Materials for Designing Advanced Separation Membranes. <i>Advanced Materials</i> , 2020, 32, e1906697.	21.0	295
8	Ternary Hybrids of Amorphous Nickel Hydroxideâ€“Carbon Nanotubeâ€“Conducting Polymer for Supercapacitors with High Energy Density, Excellent Rate Capability, and Long Cycle Life. <i>Advanced Functional Materials</i> , 2015, 25, 1063-1073.	14.9	288
9	Carbon science in 2016: Status, challenges and perspectives. <i>Carbon</i> , 2016, 98, 708-732.	10.3	261
10	Allâ€“Carbon Nanoarchitectures as Highâ€“Performance Separation Membranes with Superior Stability. <i>Advanced Functional Materials</i> , 2015, 25, 7348-7359.	14.9	248
11	Controlled Functionalization of Carbonaceous Fibers for Asymmetric Solidâ€“State Microâ€“Supercapacitors with High Volumetric Energy Density. <i>Advanced Materials</i> , 2014, 26, 6790-6797.	21.0	243
12	Amorphous Bimetallic Oxideâ€“Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Znâ€“Air Batteries. <i>Advanced Materials</i> , 2017, 29, 1701410.	21.0	243
13	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. <i>Chemical Reviews</i> , 2018, 118, 8655-8769.	47.7	239
14	Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. <i>Energy and Environmental Science</i> , 2020, 13, 3185-3206.	30.8	225
15	Hollow Fiber Membrane Decorated with Ag/MWNTs: Toward Effective Water Disinfection and Biofouling Control. <i>ACS Nano</i> , 2011, 5, 10033-10040.	14.6	217
16	A Flexible Rechargeable Zincâ€“Air Battery with Excellent Lowâ€“Temperature Adaptability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4793-4799.	13.8	217
17	Toward Flexible Zincâ€“Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl ₂ Saltâ€“Based Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 990-997.	13.8	215
18	Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process. <i>Journal of Membrane Science</i> , 2015, 474, 244-253.	8.2	211

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19	Transforming Pristine Carbon Fiber Tows into High Performance Solidâ€State Fiber Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4895-4901.	21.0	193
20	Recent Advances in Materials and Design of Electrochemically Rechargeable Zincâ€Air Batteries. <i>Small</i> , 2018, 14, e1801929.	10.0	192
21	Carbon nanomaterials for advancing separation membranes: A strategic perspective. <i>Carbon</i> , 2016, 109, 694-710.	10.3	189
22	Prussian blue, its analogues and their derived materials for electrochemical energy storage and conversion. <i>Energy Storage Materials</i> , 2020, 25, 585-612.	18.0	181
23	Realizing small-flake graphene oxide membranes for ultrafast size-dependent organic solvent nanofiltration. <i>Science Advances</i> , 2020, 6, eaaz9184.	10.3	177
24	Graphene Materials in Antimicrobial Nanomedicine: Current Status and Future Perspectives. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701406.	7.6	166
25	1D Supercapacitors for Emerging Electronics: Current Status and Future Directions. <i>Advanced Materials</i> , 2020, 32, e1902387.	21.0	158
26	Nitrogen doped holey graphene as an efficient metal-free multifunctional electrochemical catalyst for hydrazine oxidation and oxygen reduction. <i>Nanoscale</i> , 2013, 5, 3457.	5.6	154
27	Antibacterial action of dispersed single-walled carbon nanotubes on <i>Escherichia coli</i> and <i>Bacillus subtilis</i> investigated by atomic force microscopy. <i>Nanoscale</i> , 2010, 2, 2744.	5.6	153
28	Sandwich-Architected Poly(lactic acid)â€Graphene Composite Food Packaging Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9994-10004.	8.0	146
29	Flexible Zincâ€Ion Hybrid Fiber Capacitors with Ultrahigh Energy Density and Long Cycling Life for Wearable Electronics. <i>Small</i> , 2019, 15, e1903817.	10.0	143
30	Toward Flexible Zincâ€Ion Hybrid Capacitors with Superhigh Energy Density and Ultralong Cycling Life: The Pivotal Role of ZnCl ₂ Saltâ€Based Electrolytes. <i>Angewandte Chemie</i> , 2021, 133, 1003-1010.	2.0	130
31	Textile energy storage: Structural design concepts, material selection and future perspectives. <i>Energy Storage Materials</i> , 2016, 3, 123-139.	18.0	128
32	Recent advances in nanomaterial-modified polyamide thin-film composite membranes for forward osmosis processes. <i>Journal of Membrane Science</i> , 2019, 584, 20-45.	8.2	128
33	Ultrathin nickel boride nanosheets anchored on functionalized carbon nanotubes as bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 764-774.	10.3	123
34	All-carbon solid-state yarn supercapacitors from activated carbon and carbon fibers for smart textiles. <i>Materials Horizons</i> , 2015, 2, 598-605.	12.2	120
35	Selective Synthesis of (9,8) Single Walled Carbon Nanotubes on Cobalt Incorporated TUD-1 Catalysts. <i>Journal of the American Chemical Society</i> , 2010, 132, 16747-16749.	13.7	119
36	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. <i>Energy and Environmental Science</i> , 2011, 4, 4220.	30.8	119

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37	Enabling highly efficient, flexible and rechargeable quasi-solid-state zn-air batteries via catalyst engineering and electrolyte functionalization. <i>Energy Storage Materials</i> , 2019, 20, 234-242.	18.0	115
38	Nano- RuO_2 -Decorated Holey Graphene Composite Fibers for Micro-Supercapacitors with Ultrahigh Energy Density. <i>Small</i> , 2018, 14, e1800582.	10.0	113
39	A hierarchically porous nickel-copper phosphide nano-foam for efficient electrochemical splitting of water. <i>Nanoscale</i> , 2017, 9, 4401-4408.	5.6	110
40	Catalysts for chirality selective synthesis of single-walled carbon nanotubes. <i>Carbon</i> , 2015, 81, 1-19.	10.3	106
41	A graphene-covalent organic framework hybrid for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2020, 32, 448-457.	18.0	103
42	Fabrication of novel functionalized multi-walled carbon nanotube immobilized hollow fiber membranes for enhanced performance in forward osmosis process. <i>Journal of Membrane Science</i> , 2013, 446, 244-254.	8.2	102
43	Chiral-Selective $\text{CoSO}_4/\text{SiO}_2$ Catalyst for (9,8) Single-Walled Carbon Nanotube Growth. <i>ACS Nano</i> , 2013, 7, 614-626.	14.6	101
44	Hydrogen evolution reaction activity of nickel phosphide is highly sensitive to electrolyte pH. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20390-20397.	10.3	98
45	Space-confined assembly of all-carbon hybrid fibers for capacitive energy storage: realizing a built-to-order concept for micro-supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 611-622.	30.8	94
46	A carbon science perspective in 2018: Current achievements and future challenges. <i>Carbon</i> , 2018, 132, 785-801.	10.3	80
47	One-Dimensional van der Waals Heterostructures as Efficient Metal-Free Oxygen Electrocatalysts. <i>ACS Nano</i> , 2021, 15, 3309-3319.	14.6	79
48	A high-performance metal-free hydrogen-evolution reaction electrocatalyst from bacterium derived carbon. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7210-7214.	10.3	75
49	2D materials for 1D electrochemical energy storage devices. <i>Energy Storage Materials</i> , 2019, 19, 102-123.	18.0	71
50	Carbon nanotubes for flexible batteries: recent progress and future perspective. <i>National Science Review</i> , 2021, 8, nwaa261.	9.5	71
51	Effect of different catalyst supports on the (n,m) selective growth of single-walled carbon nanotube from Co-Mo catalyst. <i>Journal of Materials Science</i> , 2009, 44, 3285-3295.	3.7	60
52	Rechargeable zinc-air batteries with neutral electrolytes: Recent advances, challenges, and prospects. <i>EnergyChem</i> , 2021, 3, 100055.	19.1	59
53	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. <i>Desalination</i> , 2020, 484, 114421.	8.2	58
54	Metal-free bifunctional carbon electrocatalysts derived from zeolitic imidazolate frameworks for efficient water splitting. <i>Materials Chemistry Frontiers</i> , 2018, 2, 102-111.	5.9	57

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55	A Flexible Rechargeable Zinc-Air Battery with Excellent Low-Temperature Adaptability. <i>Angewandte Chemie</i> , 2020, 132, 4823-4829.	2.0	57
56	Big to Small: Ultrafine Mo ₂ C Particles Derived from Giant Polyoxomolybdate Clusters for Hydrogen Evolution Reaction. <i>Small</i> , 2019, 15, e1900358.	10.0	53
57	A core-sheath holey graphene/graphite composite fiber intercalated with MoS ₂ nanosheets for high-performance fiber supercapacitors. <i>Electrochimica Acta</i> , 2019, 305, 493-501.	5.2	51
58	Probing the Diameter Limit of Single Walled Carbon Nanotubes in SWCNT: Fullerene Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600890.	19.5	50
59	The roles of metal-organic frameworks in modulating water permeability of graphene oxide-based carbon membranes. <i>Carbon</i> , 2019, 148, 277-289.	10.3	50
60	Octahedral Coordinated Trivalent Cobalt Enriched Multimetal Oxygen Evolution Catalysts. <i>Advanced Energy Materials</i> , 2020, 10, 2002593.	19.5	47
61	Graphene oxide laminates intercalated with 2D covalent-organic frameworks as a robust nanofiltration membrane. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9713-9725.	10.3	46
62	Pore Curvature Effect on the Stability of Co-MCM-41 and the Formation of Size-Controllable Subnanometer Co Clusters. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2285-2294.	2.6	45
63	Milk powder-derived bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. <i>Energy Storage Materials</i> , 2018, 11, 134-143.	18.0	45
64	Asymmetric deposition of manganese oxide in single walled carbon nanotube films as electrodes for flexible high frequency response electrochemical capacitors. <i>Electrochimica Acta</i> , 2012, 78, 122-132.	5.2	44
65	Microbe-derived carbon materials for electrical energy storage and conversion. <i>Journal of Energy Chemistry</i> , 2016, 25, 191-198.	12.9	44
66	PDMS-coated porous PVDF hollow fiber membranes for efficient recovery of dissolved biomethane from anaerobic effluents. <i>Journal of Membrane Science</i> , 2019, 584, 333-342.	8.2	44
67	Catalytic activity atlas of ternary Co-Fe-V metal oxides for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15951-15961.	10.3	43
68	Drying graphene hydrogel fibers for capacitive energy storage. <i>Carbon</i> , 2020, 164, 100-110.	10.3	43
69	Bacterial physiology is a key modulator of the antibacterial activity of graphene oxide. <i>Nanoscale</i> , 2016, 8, 17181-17189.	5.6	42
70	Assembly of pi-functionalized quaternary ammonium compounds with graphene hydrogel for efficient water disinfection. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 149-158.	9.4	41
71	The on-demand engineering of metal-doped porous carbon nanofibers as efficient bifunctional oxygen catalysts for high-performance flexible Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7297-7308.	10.3	41
72	Scalable fabrication of graphene-based laminate membranes for liquid and gas separations by crosslinking-induced gelation and doctor-blade casting. <i>Carbon</i> , 2019, 155, 129-137.	10.3	40

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73	CoSO ₄ /SiO ₂ catalyst for selective synthesis of (9, 8) single-walled carbon nanotubes: Effect of catalyst calcination. <i>Journal of Catalysis</i> , 2013, 300, 91-101.	6.2	38
74	Antimicrobial graphene materials: the interplay of complex materials characteristics and competing mechanisms. <i>Biomaterials Science</i> , 2018, 6, 766-773.	5.4	37
75	Overcoming humidity-induced swelling of graphene oxide-based hydrogen membranes using charge-compensating nanodiamonds. <i>Nature Energy</i> , 2021, 6, 1176-1187.	39.5	37
76	Nanocarbon materials in water disinfection: state-of-the-art and future directions. <i>Nanoscale</i> , 2019, 11, 9819-9839.	5.6	35
77	Multifunctional nitrogen-rich "brick-and-mortar" carbon as high performance supercapacitor electrodes and oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11061.	10.3	34
78	Hydrothermal assembly of micro-nano-integrated core-sheath carbon fibers for high-performance all-carbon micro-supercapacitors. <i>Energy Storage Materials</i> , 2017, 9, 221-228.	18.0	34
79	Novel Poly(l-lactide)/graphene oxide films with improved mechanical flexibility and antibacterial activity. <i>Journal of Colloid and Interface Science</i> , 2017, 507, 344-352.	9.4	33
80	"Smart poisoning" of Co/SiO ₂ catalysts by sulfidation for chirality-selective synthesis of (9,8) single-walled carbon nanotubes. <i>Nanoscale</i> , 2016, 8, 17705-17713.	5.6	32
81	2D Material Based Advanced Membranes for Separations in Organic Solvents. <i>Small</i> , 2020, 16, e2003400.	10.0	31
82	Synergism of Water Shock and a Biocompatible Block Copolymer Potentiates the Antibacterial Activity of Graphene Oxide. <i>Small</i> , 2016, 12, 951-962.	10.0	30
83	Controlling water transport in carbon nanotubes. <i>Nano Today</i> , 2017, 14, 13-15.	11.9	30
84	Membrane-based technologies for post-treatment of anaerobic effluents. <i>Npj Clean Water</i> , 2018, 1, .	8.0	30
85	Graphene-Based Membranes for CO ₂ /CH ₄ Separation: Key Challenges and Perspectives. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2784.	2.5	29
86	Acetone-Induced Graphene Oxide Film Formation at the Water-Air Interface. <i>Chemistry - an Asian Journal</i> , 2013, 8, 437-443.	3.3	28
87	Non-covalent synthesis of thermo-responsive graphene oxide-terephthalic acid-containing poly(N-isopropylacrylamide) hybrid for organic pigment removal. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 121-128.	9.4	28
88	Defective crystalline molybdenum phosphides as bifunctional catalysts for hydrogen evolution and hydrazine oxidation reactions during water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2686-2695.	6.0	27
89	Ultralow-platinum-loading nanocarbon hybrids for highly sensitive hydrogen peroxide detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 304-311.	7.8	27
90	How Is Cycle Life of Three-Dimensional Zinc Metal Anodes with Carbon Fiber Backbones Affected by Depth of Discharge and Current Density in Zinc-Ion Batteries?. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12323-12330.	8.0	27

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91	Sulfur-induced chirality changes in single-walled carbon nanotube synthesis by ethanol chemical vapor deposition on a Co/SiO ₂ catalyst. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3310-3319.	10.3	26
92	Ultrafast hydrothermal assembly of nanocarbon microfibers in near-critical water for 3D microsupercapacitors. <i>Carbon</i> , 2018, 132, 698-708.	10.3	26
93	Sulfur doped Co/SiO ₂ catalysts for chirally selective synthesis of single walled carbon nanotubes. <i>Chemical Communications</i> , 2013, 49, 2031-2033.	4.1	25
94	Hydrogen-bonded multilayers of micelles of a dually responsive dicationic block copolymer. <i>Soft Matter</i> , 2012, 8, 827-836.	2.7	24
95	Biofilm-Templated Heteroatom-Doped Carbonâ€Palladium Nanocomposite Catalyst for Hexavalent Chromium Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24018-24026.	8.0	24
96	The tripartite role of 2D covalent organic frameworks in graphene-based organic solvent nanofiltration membranes. <i>Matter</i> , 2021, 4, 2953-2969.	10.0	24
97	Assemble 2D redox-active covalent organic framework/graphene hybrids as high-performance capacitive materials. <i>Carbon</i> , 2022, 190, 412-421.	10.3	24
98	(9,8) Singleâ€Walled Carbon Nanotube Enrichment via Aqueous Twoâ€Phase Separation and Their Thinâ€Film Transistor Applications. <i>Advanced Electronic Materials</i> , 2015, 1, 1500151.	5.1	23
99	Metallicityâ€Dependent Ultrafast Water Transport in Carbon Nanotubes. <i>Small</i> , 2020, 16, e1907575.	10.0	23
100	Sub-ÅngstrÃm-level engineering of ultramicroporous carbons for enhanced sulfur hexafluoride capture. <i>Carbon</i> , 2019, 155, 56-64.	10.3	22
101	Selective synthesis of single walled carbon nanotubes on metal (iron, nickel or cobalt) sulfate-based catalysts. <i>Carbon</i> , 2018, 129, 128-136.	10.3	21
102	Enhanced O ₂ /N ₂ Separation of Mixed-Matrix Membrane Filled with Pluronic-Compatibilized Cobalt Phthalocyanine Particles. <i>Membranes</i> , 2020, 10, 75.	3.0	20
103	Extraction of (9,8) Singleâ€Walled Carbon Nanotubes by Fluoreneâ€Based Polymers. <i>Chemistry - an Asian Journal</i> , 2014, 9, 868-877.	3.3	18
104	E. coli-derived carbon with nitrogen and phosphorus dual functionalities for oxygen reduction reaction. <i>Catalysis Today</i> , 2015, 249, 228-235.	4.4	18
105	Cobalt Nanoparticles Confined in Carbon Cages Derived from Zeolitic Imidazolate Frameworks as Efficient Oxygen Electrocatalysts for Zincâ€Air Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 355-363.	4.7	16
106	Biomass-derived nanocarbon materials for biological applications: challenges and prospects. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9668-9678.	5.8	16
107	Nickel hydroxideâ€carbon nanotube nanocomposites as supercapacitor electrodes: crystallinity dependent performances. <i>Nanotechnology</i> , 2015, 26, 314003.	2.6	15
108	Wetting- and fouling-resistant hollow fiber membranes for dissolved methane recovery from anaerobic wastewater treatment effluents. <i>Journal of Membrane Science</i> , 2021, 617, 118621.	8.2	15

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109	Perylene bisimide-incorporated water-soluble polyurethanes for living cell fluorescence labeling. <i>Polymer</i> , 2016, 82, 172-180.	3.8	14
110	Carbon nanotubes integrated into polyamide membranes by support pre-infiltration improve the desalination performance. <i>Carbon</i> , 2021, 185, 546-557.	10.3	14
111	Carbon composite membranes for thermal-driven membrane processes. <i>Carbon</i> , 2021, 179, 600-626.	10.3	12
112	Interfacial engineering of graphenic carbon electrodes by antimicrobial polyhexamethylene guanidine hydrochloride for ultrasensitive bacterial detection. <i>Carbon</i> , 2020, 159, 185-194.	10.3	11
113	pH-stability and pH-annealing of H-bonded multilayer films prepared by layer-by-layer spin-assembly. <i>European Polymer Journal</i> , 2014, 56, 159-167.	5.4	10
114	Cold Chain-Free Storable Hydrogel for Infant-Friendly Oral Delivery of Amoxicillin for the Treatment of Pneumococcal Pneumonia. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18440-18449.	8.0	10
115	Polycondensation of a Perylene Bisimide Derivative and L-Malic Acid as Water-Soluble Conjugates for Fluorescent Labeling of Live Mammalian Cells. <i>Polymers</i> , 2018, 10, 559.	4.5	9
116	Synthesis of (9,8) single-walled carbon nanotubes on CoSO ₄ /SiO ₂ catalysts: The effect of Co mass loadings. <i>Carbon</i> , 2020, 169, 288-296.	10.3	9
117	Structural colour enhanced microfluidics. <i>Nature Communications</i> , 2022, 13, 2281.	12.8	9
118	Cobalt sulfide catalysts for single-walled carbon nanotube synthesis. <i>Diamond and Related Materials</i> , 2021, 114, 108288.	3.9	8
119	Antimicrobial Nanomedicine: Graphene Materials in Antimicrobial Nanomedicine: Current Status and Future Perspectives (<i>Adv. Healthcare Mater.</i> 13/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870050.	7.6	6
120	Cardanol-derived cationic surfactants enabling the superior antibacterial activity of single-walled carbon nanotubes. <i>Nanotechnology</i> , 2020, 31, 265603.	2.6	6
121	Simultaneous DLS-SLS study of titanium and titanium/silicon oxide sol growth. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 76, 251-259.	2.4	3
122	Shadow-casted ultrathin surface coatings of titanium and titanium/silicon oxide sol particles via ultrasound-assisted deposition. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 481-489.	8.2	3
123	Dual-Template Pore Engineering of Whey Powder-Derived Carbon as an Efficient Oxygen Reduction Reaction Electrocatalyst for Primary Zinc-Air Battery. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1881-1889.	3.3	3
124	Fiber-shaped micro-supercapacitors. , 2022, , 257-271.		1
125	Antibacterial performance of graphene oxide complemented with pluronic F-127 on physiologically mature gram-negative bacteria. , 2017, , .		0