Robert Sinclair

List of Publications by Year
in descending order

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138 papers	6,479 citations	109137 35 h-index	64668 79 g-index
139 all docs	139 docs citations	139 times ranked	9316 citing authors

#	Article	IF	Citations
1	Highly stretchable polymer semiconductor films through the nanoconfinement effect. Science, 2017, 355, 59-64.	6.0	897
2	The preparation of cross-section specimens for transmission electron microscopy. Journal of Electron Microscopy Technique, 1984, 1, 53-61.	1.1	511
3	Metastable phase formation in titaniumâ€silicon thin films. Journal of Applied Physics, 1985, 57, 5240-5245.	1.1	393
4	Designing Boron Nitride Islands in Carbon Materials for Efficient Electrochemical Synthesis of Hydrogen Peroxide. Journal of the American Chemical Society, 2018, 140, 7851-7859.	6.6	310
5	Defective Carbon-Based Materials for the Electrochemical Synthesis of Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 311-317.	3.2	236
6	Ultratransparent and stretchable graphene electrodes. Science Advances, 2017, 3, e1700159.	4.7	231
7	Amorphous Tiâ€Si alloy formed by interdiffusion of amorphous Si and crystalline Ti multilayers. Journal of Applied Physics, 1987, 61, 1359-1364.	1.1	229
8	Pro-efferocytic nanoparticles are specifically taken up by lesional macrophages and prevent atherosclerosis. Nature Nanotechnology, 2020, 15, 154-161.	15.6	173
9	Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents. ACS Nano, 2018, 12, 10817-10832.	7.3	170
10	Intranasal delivery of targeted polyfunctional goldâ€“iron oxide nanoparticles loaded with therapeutic microRNAs for combined theranostic multimodality imaging and presensitization of glioblastoma to temozolomide. Biomaterials, 2019, 218, 119342.	5.7	159
11	Designing Active and Stable Silicon Photocathodes for Solar Hydrogen Production Using Molybdenum Sulfide Nanomaterials. Advanced Energy Materials, 2014, 4, 1400739.	10.2	158
12	Interfacial reactions on annealing molybdenumâ€silicon multilayers. Journal of Applied Physics, 1989, 65, 474-480.	1.1	157
13	Crystallization of silicon in aluminium/amorphous-silicon multilayers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 66, 749-765.	0.6	129
14	Phase equilibria in metalâ€galliumâ€arsenic systems: Thermodynamic considerations for metallization materials. Journal of Applied Physics, 1987, 61, 2195-2202.	1.1	128
15	Oxygen Surface Exchange at Grain Boundaries of Oxide Ion Conductors. Advanced Functional Materials, 2012, 22, 965-971.	7.8	127
16	Effects of Gold Substrates on the Intrinsic and Extrinsic Activity of High-Loading Nickel-Based Oxyhydroxide Oxygen Evolution Catalysts. ACS Catalysis, 2017, 7, 5399-5409.	5.5	120
17	Acidic Oxygen Evolution Reaction Activityâ€“Stability Relationships in Ru-Based Pyrochlores. ACS Catalysis, 2020, 10, 12182-12196.	5.5	111
18	Persistent and partially mobile oxygen vacancies in Li-rich layered oxides. Nature Energy, 2021, 6, 642-652.	19.8	106

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19	Cryo-EM Structures of Atomic Surfaces and Host-Guest Chemistry in Metal-Organic Frameworks. Matter, 2019, 1, 428-438.	5.0	102
20	Direct visualization of hydrogen absorption dynamics in individual palladium nanoparticles. Nature Communications, 2017, 8, 14020.	5.8	99
21	In Situ TEM Studies of Metalâ€“Carbon Reactions. Microscopy and Microanalysis, 2002, 8, 288-304.	0.2	85
22	Deformable Organic Nanowire Fieldâ€Effect Transistors. Advanced Materials, 2018, 30, 1704401.	11.1	82
23	Precious Metal-Free Nickel Nitride Catalyst for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2019, 11, 26863-26871.	4.0	81
24	Solid-state amorphization at tetragonal-Ta/Cu interfaces. Applied Physics Letters, 1999, 75, 935-937.	1.5	80
25	A tunable silkâ€“alginate hydrogel scaffold for stem cell culture and transplantation. Biomaterials, 2014, 35, 3736-3743.	5.7	80
26	Highly Stable Molybdenum Disulfide Protected Silicon Photocathodes for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36792-36798.	4.0	73
27	Reconstructing solute-induced phase transformations within individual nanocrystals. Nature Materials, 2016, 15, 768-774.	13.3	72
28	Equilibrium oxygen storage capacity of ultrathin CeO2-Î´ depends non-monotonically on large biaxial strain. Nature Communications, 2017, 8, 15360.	5.8	71
29	Magnetization switching using topological surface states. Science Advances, 2019, 5, eaaw3415.	4.7	65
30	Atomic Layer Deposition of CdS Films. Chemistry of Materials, 2010, 22, 4669-4678.	3.2	62
31	Interface microstructure of titanium thinâ€film/silicon singleâ€crystal substrate correlated with electrical barrier heights. Journal of Applied Physics, 1991, 70, 827-832.	1.1	59
32	Nitride or Oxynitride? Elucidating the Compositionâ€“Activity Relationships in Molybdenum Nitride Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2020, 32, 2946-2960.	3.2	57
33	Metal-mediated crystallization of amorphous silicon in silicon-silver layered systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 163-178.	0.6	45
34	Mitochondria-Rich Extracellular Vesicles Rescue Patient-Specific Cardiomyocytes From Doxorubicin Injury. JACC: CardioOncology, 2021, 3, 428-440.	1.7	42
35	Nanomedicine for Spontaneous Brain Tumors: A Companion Clinical Trial. ACS Nano, 2019, 13, 2858-2869.	7.3	41
36	Observing Plasmon Damping Due to Adhesion Layers in Gold Nanostructures Using Electron Energy Loss Spectroscopy. ACS Photonics, 2017, 4, 268-274.	3.2	40

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37	Oxidation of Carbon Nanotubes in an Ionizing Environment. Nano Letters, 2016, 16, 856-863.	4.5	34
38	Metal-mediated crystallization of amorphous germanium in germanium-silver layered systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 71, 179-199.	0.6	32
39	Atomic and Molecular Layer Deposition of Hybrid Moâ€“Thiolate Thin Films with Enhanced Catalytic Activity. Advanced Functional Materials, 2018, 28, 1800852.	7.8	32
40	Visualizing Facet-Dependent Hydrogenation Dynamics in Individual Palladium Nanoparticles. Nano Letters, 2018, 18, 5357-5363.	4.5	31
41	Torsional Deformations in Subnanometer MoS Interconnecting Wires. Nano Letters, 2016, 16, 1210-1217.	4.5	30
42	Amorphous phase formation and initial interfacial reactions in the platinum/GaAs system. Journal of Applied Physics, 1992, 72, 2036-2042.	1.1	28
43	A correlative optical microscopy and scanning electron microscopy approach to locating nanoparticles in brain tumors. Micron, 2015, 68, 70-76.	1.1	27
44	Growth of Highly Strained CeO₂ Ultrathin Films. ACS Nano, 2016, 10, 9938-9947.	7.3	27
45	Structure and chemistry of epitaxial ceria thin films on yttria-stabilized zirconia substrates, studied by high resolution electron microscopy. Ultramicroscopy, 2017, 176, 200-211.	0.8	26
46	Anti-Hermitian photodetector facilitating efficient subwavelength photon sorting. Nature Communications, 2018, 9, 316.	5.8	26
47	Microstructure and Exchange Coupling of Segregated Oxide Perpendicular Recording Media. IEEE Transactions on Magnetics, 2007, 43, 639-644.	1.2	24
48	Atomic layer deposition of CdxZn1â^'xS films. Journal of Materials Chemistry, 2011, 21, 743-751.	6.7	24
49	Intrinsic Chirality Origination in Carbon Nanotubes. ACS Nano, 2017, 11, 9941-9949.	7.3	23
50	First-Row Transition Metal Antimonates for the Oxygen Reduction Reaction. ACS Nano, 2022, 16, 6334-6348.	7.3	23
51	Isolating the Electrocatalytic Activity of a Confined NiFe Motif within Zirconium Phosphate. Advanced Energy Materials, 2021, 11, 2003545.	10.2	21
52	Thermally induced crystallization in NbO2 thin films. Scientific Reports, 2016, 6, 34294.	1.6	20
53	The dissipation of field emitting carbon nanotubes in an oxygen environment as revealed by in situ transmission electron microscopy. Nanoscale, 2016, 8, 16405-16415.	2.8	19
54	In-situ visualization of solute-driven phase coexistence within individual nanorods. Nature Communications, 2018, 9, 1775.	5.8	19

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55	Thermochemical stability of BaFe₁₂O₁₉and BaFe₂O₄and phase relations in the Ba-Fe-O ternary system. Journal of Materials Research, 1994, 9, 1499-1512.	1.2	18
56	Nickel Mediated Transformation of Amorphous Carbon to Graphite. Materials Research Society Symposia Proceedings, 1994, 349, 31.	0.1	18
57	Enhanced Thermal Conduction Through Nanostructured Interfaces. Nanoscale and Microscale Thermophysical Engineering, 2017, 21, 134-144.	1.4	18
58	Nanosized Zirconium Porphyrinic Metalâ€“Organic Frameworks that Catalyze the Oxygen Reduction Reaction in Acid. Small Methods, 2020, 4, 2000085.	4.6	18
59	Amorphous phase formation in an asâ€deposited platinumâ€GaAs interface. Applied Physics Letters, 1991, 58, 1851-1853.	1.5	17
60	Identifying and Tuning the In Situ Oxygen-Rich Surface of Molybdenum Nitride Electrocatalysts for Oxygen Reduction. ACS Applied Energy Materials, 2020, 3, 12433-12446.	2.5	17
61	Characterization of a Dynamic Y₂Ir₂O₇ Catalyst during the Oxygen Evolution Reaction in Acid. Journal of Physical Chemistry C, 2022, 126, 1751-1760.	1.5	17
62	Synthesis and characterization of graphite-encapsulated iron nanoparticles from ball milling-assisted low-pressure chemical vapor deposition. Carbon, 2017, 124, 170-179.	5.4	16
63	Understanding Degradation Mechanisms in SrIrO₃ Oxygen Evolution Electrocatalysts: Chemical and Structural Microscopy at the Nanoscale. Advanced Functional Materials, 2021, 31, 2101542.	7.8	16
64	Rotating Anisotropic Crystalline Silicon Nanoclusters in Graphene. ACS Nano, 2015, 9, 9497-9506.	7.3	15
65	Synthesis, Characterization, and Light-Induced Spatial Charge Separation in Janus Graphene Oxide. Chemistry of Materials, 2018, 30, 2084-2092.	3.2	15
66	Assessing and ameliorating the influence of the electron beam on carbon nanotube oxidation in environmental transmission electron microscopy. Ultramicroscopy, 2017, 176, 132-138.	0.8	14
67	Atomicâ€scale planarization of SiO2/Si(001) interfaces. Applied Physics Letters, 1993, 63, 675-677.	1.5	13
68	HREM analysis of graphite-encapsulated metallic nanoparticles for possible medical applications. Ultramicroscopy, 2013, 134, 167-174.	0.8	13
69	Structure and Thermodynamics of Amorphous Ti-Si Produced by Solid-State Interdiffusion. Materials Research Society Symposia Proceedings, 1990, 187, 71.	0.1	12
70	Correlative Microscopy to Localize and Characterize Iron Deposition in Alzheimerâ€™s Disease. Journal of Alzheimer's Disease Reports, 2020, 4, 525-536.	1.2	12
71	Amorphous thin film TaWSiC as a diffusion barrier for copper interconnects. Applied Physics Letters, 2013, 103, .	1.5	11
72	Reaction-mediated texturing of barium ferrite magnetic thin films on ZnO underlayer. Journal of Materials Research, 1995, 10, 2343-2349.	1.2	10

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73	Carbide Evolution in Temper Embrittled NiCrMoV Bainitic Steel. Steel Research International, 2004, 75, 47-54.	1.0	10
74	Reactions at the Titanium-Silicon Interface Studied Using Hot-Stage Tem. Materials Research Society Symposia Proceedings, 1992, 260, 227.	0.1	9
75	FIB and TEM studies of interface structure in diamondâ€“SiC composites. Journal of Materials Science, 2006, 41, 4611-4616.	1.7	9
76	Effect of Adventitious Carbon on Pit Formation of Monolayer MoS 2. Advanced Materials, 2020, 32, 2003020.	11.1	9
77	Interfacial Reactions in Titanium - Silicon Multilayers. Materials Research Society Symposia Proceedings, 1986, 77, 357.	0.1	8
78	Nanoroughness effect on Cr growth mechanism. Journal of Applied Physics, 1997, 81, 3943-3945.	1.1	8
79	Epitaxial Stabilization and Oxygen Evolution Reaction Activity of Metastable Columbite Iridium Oxide. ACS Applied Energy Materials, 2021, 4, 3074-3082.	2.5	7
80	Evidence for a Grain Boundary Grooving Model of Agglomeration in Polycrystalline Tisi₂ Thin Films. Materials Research Society Symposia Proceedings, 1990, 202, 95.	0.1	6
81	Exploring valence states of abnormal mineral deposits in biological tissues using correlative microscopy and spectroscopy techniques: A case study on ferritin and iron deposits from Alzheimerâ€™s disease patients. Ultramicroscopy, 2021, 231, 113254.	0.8	6
82	Structure and electrical properties of interfaces between silicon films andn+silicon crystals. Journal of Applied Physics, 1989, 65, 668-671.	1.1	5
83	SiO₂/Si Interfaces Studied by Stm and Hrtem. Materials Research Society Symposia Proceedings, 1990, 183, 141.	0.1	5
84	Crystallization of Amorphous Si In Al/Si Multilayers. Materials Research Society Symposia Proceedings, 1991, 230, 189.	0.1	5
85	Direct Solid State Phase Transformation from Co to Epitaxial CoSi₂ in Co / Thin Ti / (100) Si Structure and its Application for Shallow Junction Formation. Materials Research Society Symposia Proceedings, 1993, 320, 355.	0.1	5
86	Hrem In Situ Annealing of the CdTe/GaAs Heterojunction. Materials Research Society Symposia Proceedings, 1989, 139, 205.	0.1	4
87	Crystallization of Amorphous Silicon-Aluminum thin Films: IN-SITU Observation and Thermal Analysis.. Materials Research Society Symposia Proceedings, 1991, 237, 609.	0.1	4
88	Characterization of Sputtered Barium Ferrite Thin Films on Silicon Nitride Coated Carbon Substrates. Materials Research Society Symposia Proceedings, 1994, 341, 59.	0.1	4
89	In Situ Tem Study of Reactions in Iron/amorphous Carbon Layered Thin Films. Materials Research Society Symposia Proceedings, 1995, 382, 45.	0.1	4
90	Preliminary Investigations of Chemical & Morphological Inhomogeneities in Laft6 Sro.4CoO3-Î´ Single-Crystalline Perovskite Thin Films by ACTEM and STEM-EELS. Microscopy and Microanalysis, 2015, 21, 1055-1056.	0.2	4

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91	Atomic Resolution Observation of the Oxidation of Niobium Oxide Nanowires: Implications for Renewable Energy Applications. ACS Applied Nano Materials, 2020, 3, 9285-9292.	2.4	4
92	Reactions in Metal-Metalloid Multilayers. Materials Research Society Symposia Proceedings, 1993, 311, 3.	0.1	3
93	Crystallization of Amorphous Germanium in a Silver Germanium Layered System. Materials Research Society Symposia Proceedings, 1993, 311, 99.	0.1	3
94	Effects of Substrate Temperature on Magnetic and Crystallographic Properties of Co-Cr-Pt/Cr Films Deposited by Laser Ablation. Materials Research Society Symposia Proceedings, 1994, 343, 345.	0.1	3
95	TEM Observations of Bio-Conjugated Streptavidin-Gold Nanoparticles. Materials Research Society Symposia Proceedings, 2007, 1019, 1.	0.1	3
96	Aberration-Corrected Transmission Electron Microscopy of the Intergranular Phase in Magnetic Recording Media. Nano Letters, 2012, 12, 2595-2598.	4.5	3
97	Electron Energy-Loss Spectroscopy (EELS) Study of NbOx Film for Resistive Memory Applications. Microscopy and Microanalysis, 2015, 21, 285-286.	0.2	3
98	Publisher's Note. Ultramicroscopy, 2017, 175, 25.	0.8	3
99	In-Situ and High-Resolution Tem Observation of Interfacial Reactions in Metal-Silicon Multilayers. Materials Research Society Symposia Proceedings, 1987, 103, 167.	0.1	2
100	In-Situannealing Transmission Electron Microscopy(Tem) Study of the Ti/GaAs Interfacial Reactions. Materials Research Society Symposia Proceedings, 1989, 148, 21.	0.1	2
101	Thermodynamic Stability of Ptal Thin Films on GaAs. Materials Research Society Symposia Proceedings, 1990, 181, 333.	0.1	2
102	Magnetic and Magneto-Optic Properties of PtFe (001) and PtCo (001) Thin Films. Materials Research Society Symposia Proceedings, 1993, 313, 805.	0.1	2
103	Transmission Electron Microscopy of Mocvd Titanium Nitride Films. Materials Research Society Symposia Proceedings, 1994, 337, 735.	0.1	2
104	Tem Study of Crystallization of a-SiC in Contact With Silver. Materials Research Society Symposia Proceedings, 1995, 382, 39.	0.1	2
105	Antiphase Ordered Domains and Optical Diffraction for Copper-Gold and Samarium-doped Ceria: Reflections on Gareth Thomas. Microscopy and Microanalysis, 2016, 22, 1238-1239.	0.2	2
106	Structural Properties of Anisotropic PtCo(001) and PtFe(001) Thin Films on MgO(001). Materials Research Society Symposia Proceedings, 1993, 311, 9.	0.1	1
107	Interface Reaction Enhanced Epitaxial Growth of Barium Ferrite Magnetic Thin Films. Materials Research Society Symposia Proceedings, 1994, 357, 165.	0.1	1
108	The Failure Mechanism of MOCVD TiN Diffusion Barrier at high Temperature. Materials Research Society Symposia Proceedings, 1996, 428, 279.	0.1	1

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109	Microstructural Characterization of Longitudinal Magnetic Recording Media. Materials Research Society Symposia Proceedings, 1999, 589, 3.	0.1	1
110	The Effects of Slider Material on the Gasification of Carbon. Journal of Tribology, 2002, 124, 771-774.	1.0	1
111	Evaluating Adhesion Layers for Plasmonic Nanostructures with Monochromated STEM-EELS and Surface Enhanced Raman Spectroscopy. Microscopy and Microanalysis, 2015, 21, 2055-2056.	0.2	1
112	In Situ Field Emission of Carbon Nanotubes in Oxygen Using Environmental TEM and the Influence of the Imaging Electron Beam. Microscopy and Microanalysis, 2017, 23, 910-911.	0.2	1
113	Correlative Magnetic Imaging of Heat-Assisted Magnetic Recording Media in Cross Section Using Lorentz TEM and MFM. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	1
114	Contributions to High Resolution and In Situ Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 10-11.	0.2	1
115	Transmission Electron Microscopy (TEM) Studies on Nickel and Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts. Microscopy and Microanalysis, 2019, 25, 2072-2073.	0.2	1
116	High Resolution In Situ and Transmission Environmental Electron Microscopy of Material Reactions. Microscopy and Microanalysis, 2019, 25, 3-4.	0.2	1
117	Morphological Studies of Polysilicon Emitter Contacts. Materials Research Society Symposia Proceedings, 1984, 37, 461.	0.1	0
118	The Phase Formation Sequence In Titanium-Silicon Thin Films. Materials Research Society Symposia Proceedings, 1985, 54, 44.	0.1	0
119	Structure and Magnetic Properties of FE/ZR Multilayer Films. Materials Research Society Symposia Proceedings, 1993, 313, 731.	0.1	0
120	In-Situ Tem Observation of Interfacial Reactions in the Zr/Si System. Materials Research Society Symposia Proceedings, 1994, 337, 481.	0.1	0
121	Study of Diffusion Barrier Performance in MOCVD TiN by Transmission Electron Microscopy. Materials Research Society Symposia Proceedings, 1995, 391, 205.	0.1	0
122	Applications of TEM for Analysis of Local Failures Occurring During Silicon Metallization Process. Microscopy and Microanalysis, 1997, 3, 465-466.	0.2	0
123	Thermal Stability of The Copper/Tantalum Interfaces In Advanced Microelectronic Metallization. Microscopy and Microanalysis, 1999, 5, 176-177.	0.2	0
124	Magnetic Imaging Of Recording Media. Microscopy and Microanalysis, 1999, 5, 28-29.	0.2	0
125	Grain Size Relationships between the Magnetic Layer and the Underlayers in CoCrPtTa Recording Media. Materials Research Society Symposia Proceedings, 2000, 614, 341.	0.1	0
126	Nanoscale Investigation of Composition and Grain Boundary Effects in Magnetic Hard Disk Media. Microscopy and Microanalysis, 2003, 9, 512-513.	0.2	0

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127	Graded and alloyed II-VI semiconductors for photovoltaic buffer layers grown by atomic layer deposition (ALD). , 2011, , .		0
128	Scanning Electron Microscopy and Surface Enhanced Raman Spectroscopy Correlation Studies of Functionalized Composite Organic-Inorganic SERS Nanoparticles on Cancer Cells. Materials Research Society Symposia Proceedings, 2011, 1316, 1.	0.1	0
129	Oxidation Studies of Carbon Nanotubes for Applications as X-Ray Field Emitters Using an Aberration-Corrected, Environmental TEM. Microscopy and Microanalysis, 2013, 19, 466-467.	0.2	0
130	Imaging Perpendicular Magnetic Domains in Plan-view Using Lorentz Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 286-287.	0.2	0
131	Observing Plasmon Damping Effects of Metallic Adhesion Layers in E-Beam Synthesized Nanostructures Using STEM-EELS and Raman Spectroscopy. Microscopy and Microanalysis, 2014, 20, 588-589.	0.2	0
132	Lorentz Transmission Electron Microscopy for Imaging Magnetic Fields from a Perpendicular Ferromagnetic Stripe Domain Thin Film. Microscopy and Microanalysis, 2015, 21, 1947-1948.	0.2	0
133	Unveiling the Atomistic Processes of the Accelerated Decomposition of 8.5 mol% Y2O3-stabilized ZrO2 by Environmental TEM. Microscopy and Microanalysis, 2017, 23, 2034-2035.	0.2	0
134	Optimizing Nanostructure Size to Yield High Raman Signal Enhancement by Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2019, 25, 610-611.	0.2	0
135	Editorial for the Special Issue â€œCharacterization of Nanomaterials: Selected Papers from 6th Dresden Nanoanalysis Symposiumâ€• Nanomaterials, 2019, 9, 1527.	1.9	0
136	Prospects for In Situ TEM on Electrocatalyst Materials for Sustainable Energy Technologies. Microscopy and Microanalysis, 2021, 27, 44-45.	0.2	0
137	An approach for optimizing gold nanoparticles for possible medical applications, using correlative electron energy loss and Raman spectroscopies on electron beam lithographically fabricated arrays. Journal of Materials Research, 2021, 36, 3383.	1.2	0
138	Abstract 14859: Mesenchymal Stem Cells Rescue Patient-Specific Cardiomyocyte Viability and Function Following Doxorubicin Injury via Microvesicle Mediated Mitochondrial Transfer to Recapitulate Human Clinical Trial Results. Circulation, 2020, 142, .	1.6	0