Jonathan D Poplawsky

List of Publications by Year in Descending Order

146 papers	4,353 citations	34 h-index	62 g-index
161 ext. papers	5,643 ext. citations	7 avg, IF	5.78 L-index

#	Paper	IF	Citations
146	A creep-resistant additively manufactured Al-Ce-Ni-Mn alloy. *Acta Materialia*, **2022**, 227, 117699	8.4	3
145	Nano-scale insights regarding coke formation in zeolite SSZ-13 subject to the methanol-to-hydrocarbons reaction.. *Catalysis Science and Technology*, **2022**, 12, 1220-1228	5.5	2
144	Measuring oxygen solubility in Ni grains and boundaries after oxidation using atom probe tomography. *Scripta Materialia*, **2022**, 210, 114411	5.6	0
143	Microstructural evolution and strengthening mechanisms in a heat-treated additively manufactured Al□Cu□Mn□r alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 840, 142928	5.3	2
142	Effect of heavy ion irradiation dose rate and temperature on □ precipitation in high purity Fe-18%Cr alloy. *Acta Materialia*, **2022**, 231, 117888	8.4	0
141	Superior High-Temperature Strength in a Supersaturated Refractory High-Entropy Alloy. *Advanced Materials*, **2021**, 33, e2102401	24	7
140	Effects of niobium and tantalum on the microstructure and strength of ferritic-martensitic steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2021**, 807, 140900	5.3	7
139	Examining the creep strengthening nanoprecipitation in novel highly reinforced heat resistant steels. *Materials Characterization*, **2021**, 174, 110982	3.9	0
138	The subsurface structure of abraded Al□n□g□u alloy. *Materialia*, **2021**, 16, 101065	3.2	
137	The role of Si in determining the stability of the □ precipitate in Al-Cu-Mn-Zr alloys. *Journal of Alloys and Compounds*, **2021**, 862, 158152	5.7	4
136	Correlating advanced microscopies reveals atomic-scale mechanisms limiting lithium-ion battery lifetime. *Nature Communications*, **2021**, 12, 3740	17.4	3
135	Atomic structures of interfacial solute gateways to □ precipitates in Al-Cu alloys. *Acta Materialia*, **2021**, 212, 116891	8.4	5
134	Bifunctional nanoprecipitates strengthen and ductilize a medium-entropy alloy. *Nature*, **2021**, 595, 245-249	38.4	32
133	Understanding the influence of grain size on □Cr precipitation in Fe-21Cr-5Al alloy during thermal aging using atom probe tomography. *Microscopy and Microanalysis*, **2021**, 27, 3380-3382	0.5	0
132	High-throughput design of high-performance lightweight high-entropy alloys. *Nature Communications*, **2021**, 12, 4329	17.4	25
131	Nanoscale Chemical Imaging in Zeolite Catalysts by Atom Probe Tomography. *Microscopy and Microanalysis*, **2021**, 27, 984-985	0.5	
130	Aging behavior and strengthening mechanisms of coarsening resistant metastable □ precipitates in an Al□u alloy. *Materials and Design*, **2021**, 198, 109378	8.1	20

129	The detrimental effect of elemental contaminants when using B additions to improve the creep properties of a Ni-based superalloy. *Scripta Materialia*, **2021**, 201, 113971	5.6	1
128	Strength can be controlled by edge dislocations in refractory high-entropy alloys. *Nature Communications*, **2021**, 12, 5474	17.4	7
127	High radiation tolerance of an ultrastrong nanostructured NiCoCr alloy with stable dispersed nanooxides and fine grain structure. *Journal of Nuclear Materials*, **2021**, 557, 153316	3.3	2
126	Gradient cell-structured high-entropy alloy with exceptional strength and ductility. *Science*, **2021**, 374, 984-989	33.3	49
125	Influence of artificial aging on corrosion of abraded Al-Zn-Mg-Cu alloys. *Corrosion Science*, **2021**, 191, 109745	6.8	1
124	Elevated temperature ductility dip in an additively manufactured Al-Cu-Ce alloy. *Acta Materialia*, **2021**, 220, 117285	8.4	9
123	Understanding the microstructural stability in a □-strengthened Ni-Fe-Cr-Al-Ti alloy. *Journal of Alloys and Compounds*, **2021**, 886, 161207	5.7	1
122	Localized corrosion at nm-scale hardening precipitates in Al-Cu-Li alloys. *Acta Materialia*, **2020**, 189, 204-213	8.4	17
121	Colossal oxygen vacancy formation at a fluorite-bixbyite interface. *Nature Communications*, **2020**, 11, 1371	17.4	23
120	Structural damage and phase stability of Al0.3CoCrFeNi high entropy alloy under high temperature ion irradiation. *Acta Materialia*, **2020**, 188, 1-15	8.4	42
119	Coupling computational thermodynamics with density-function-theory based calculations to design L12 precipitates in Fe Ni based alloys. *Materials and Design*, **2020**, 191, 108592	8.1	4
118	Probing Heterogeneity in Bovine Enamel Composition through Nanoscale Chemical Imaging using Atom Probe Tomography. *Archives of Oral Biology*, **2020**, 112, 104682	2.8	1
117	Interpreting nanovoids in atom probe tomography data for accurate local compositional measurements. *Nature Communications*, **2020**, 11, 1022	17.4	16
116	Directly Linking Low-Angle Grain Boundary Misorientation to Device Functionality for GaAs Grown on Flexible Metal Substrates. *ACS Applied Materials & Interfaces*, **2020**, 12, 10664-10672	9.5	2
115	The synergistic role of Mn and Zr/Ti in producing □/L12 co-precipitates in Al-Cu alloys. *Acta Materialia*, **2020**, 194, 577-586	8.4	31
114	The origin of passivity in aluminum-manganese solid solutions. *Corrosion Science*, **2020**, 173, 108749	6.8	6
113	Examining the multi-scale complexity and the crystallographic hierarchy of isothermally treated bainitic and martensitic structures. *Materials Characterization*, **2020**, 160, 110127	3.9	5
112	Radiation response of a Fe□0Cr□5Ni austenitic stainless steel under Fe2+ irradiation at 500□C. *Materialia*, **2020**, 9, 100542	3.2	4

111	Fabrication and Characterization of Composite Membranes for the Concentration of Lithium Containing Solutions Using Forward Osmosis. *Advanced Sustainable Systems*, **2020**, 4, 2000165	5.9	4
110	Irradiation-induced segregation at dislocation loops in CoCrFeMnNi high entropy alloy. *Materialia*, **2020**, 14, 100951	3.2	5
109	Partitioning of tramp elements Cu and Si in a Ni-based superalloy and their effect on creep properties. *Materialia*, **2020**, 13, 100843	3.2	3
108	Lattice-Distortion-Enhanced Yield Strength in a Refractory High-Entropy Alloy. *Advanced Materials*, **2020**, 32, e2004029	24	40
107	Perspectives on Quenching and Tempering 4340 Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 4984-5005	2.3	8
106	Structural, band and electrical characterization of (Al0.19Ga0.81)2O3 films grown by molecular beam epitaxy on Sn doped Ga2O3 substrate. *Journal of Applied Physics*, **2019**, 126, 095702	2.5	19
105	Multi-modal characterization approach to understand proton transport mechanisms in solid oxide fuel cells. *Microscopy and Microanalysis*, **2019**, 25, 2048-2049	0.5	
104	Peierls barrier characteristic and anomalous strain hardening provoked by dynamic-strain-aging strengthening in a body-centered-cubic high-entropy alloy. *Materials Research Letters*, **2019**, 7, 475-481	7.4	18
103	Direct observation of creep strengthening nanoprecipitate formation in ausformed ferritic/martensitic steels. *Scripta Materialia*, **2019**, 164, 76-81	5.6	7
102	Understanding Mechanical Properties of Nano-Grained Bainitic Steels from Multiscale Structural Analysis. *Metals*, **2019**, 9, 426	2.3	4
101	Stable Metallic Enrichment in Conductive Filaments in TaOx-Based Resistive Switches Arising from Competing Diffusive Fluxes. *Advanced Electronic Materials*, **2019**, 5, 1800954	6.4	22
100	Mechanisms for stabilizing (Al2Cu) precipitates at elevated temperatures investigated with phase field modeling. *Materialia*, **2019**, 6, 100335	3.2	17
99	Cascading microstructures in aluminum-steel interfaces created by impact welding. *Materials Characterization*, **2019**, 151, 119-128	3.9	15
98	Shape-preserving machining produces gradient nanolaminate medium entropy alloys with high strain hardening capability. *Acta Materialia*, **2019**, 170, 176-186	8.4	27
97	Cascading phase transformations in high carbon steel resulting in the formation of inverse bainite: An atomic scale investigation. *Scientific Reports*, **2019**, 9, 5597	4.9	1
96	Interpreting Voids in Atom Probe Tomography Data via Experiment and Theory. *Microscopy and Microanalysis*, **2019**, 25, 290-291	0.5	
95	In-situ TEM analysis of the phase transformation mechanism of a CuAlNi shape memory alloy. *Journal of Alloys and Compounds*, **2019**, 808, 151743	5.7	7
94	Elevated temperature microstructural stability in cast AlCuMnZr alloys through solute segregation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2019**, 765, 138279	5.3	49

93	Investigating Effects of Alloy Chemical Complexity on Helium Bubble Formation by Accurate Segregation Measurements Using Atom Probe Tomography. *Microscopy and Microanalysis*, **2019**, 25, 1558-1559	0.5	4
92	The Utility of Xe-Plasma FIB for Preparing Aluminum Alloy Specimens for MEMS-based In Situ Double-Tilt Heating Experiments. *Microscopy and Microanalysis*, **2019**, 25, 1442-1443	0.5	
91	Validation of an alloy design strategy for stable FeCrAlNb-X ferritic alloys using electron microscopy and atom probe tomography. *Materials Characterization*, **2019**, 158, 109987	3.9	9
90	Influence of Alloying on Phase Separation in Duplex Stainless Steels. *Minerals, Metals and Materials Series*, **2019**, 2399-2408	0.3	0
89	Phase transformations of HfNbTaTiZr high-entropy alloy at intermediate temperatures. *Scripta Materialia*, **2019**, 158, 50-56	5.6	85
88	Probing the Location and Speciation of Elements in Zeolites with Correlated Atom Probe Tomography and Scanning Transmission X-Ray Microscopy. *ChemCatChem*, **2019**, 11, 488-494	5.2	11
87	Novel NiAl-strengthened high entropy alloys with balanced tensile strength and ductility. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 742, 636-647	5.3	28
86	Extremely hard amorphous-crystalline hybrid steel surface produced by deformation induced cementite amorphization. *Acta Materialia*, **2018**, 152, 107-118	8.4	12
85	Investigation of pre-existing particles in Al 5083 alloys. *Journal of Alloys and Compounds*, **2018**, 740, 461-469	3.7	39
84	Influence of Nonstoichiometry on Proton Conductivity in Thin-Film Yttrium-Doped Barium Zirconate. *ACS Applied Materials & Interfaces*, **2018**, 10, 4816-4823	9.5	11
83	Phase stability and transformation in a light-weight high-entropy alloy. *Acta Materialia*, **2018**, 146, 280-293	8.4	76
82	Nanoscale Chemical Imaging of Zeolites Using Atom Probe Tomography. *Angewandte Chemie - International Edition*, **2018**, 57, 10422-10435	16.4	20
81	On spinodal decomposition in alnico - A transmission electron microscopy and atom probe tomography study. *Acta Materialia*, **2018**, 153, 15-22	8.4	11
80	Effects of temperature on the irradiation responses of Al0.1CoCrFeNi high entropy alloy. *Scripta Materialia*, **2018**, 144, 31-35	5.6	71
79	Influence of Alloying on Phase Separation in Duplex Stainless Steels. *Minerals, Metals and Materials Series*, **2018**, 1183-1192	0.3	
78	Evaluation of Carbon Partitioning in New Generation of Quench and Partitioning (Q&P) Steels. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 4809-4823	2.3	9
77	Enhanced strength and ductility of a tungsten-doped CoCrNi medium-entropy alloy. *Journal of Materials Research*, **2018**, 33, 3301-3309	2.5	31
76	Isolating Clusters of Light Elements in Molecular Sieves with Atom Probe Tomography. *Journal of the American Chemical Society*, **2018**, 140, 9154-9158	16.4	20

75	Meta-equilibrium transition microstructure for maximum austenite stability and minimum hardness in a Ti-stabilized supermartensitic stainless steel. *Materials and Design*, **2018**, 156, 609-621	8.1	11
74	Nanoskalige chemische Bildgebung von Zeolithen durch Atomsondentomographie. *Angewandte Chemie*, **2018**, 130, 10580-10593	3.6	1
73	Unraveling the Effects of Strontium Incorporation on Barite Growth In Situ and Ex Situ Observations Using Multiscale Chemical Imaging. *Crystal Growth and Design*, **2018**, 18, 5521-5533	3.5	16
72	Revealing long- and short-range structural modifications within phosphorus-treated HZSM-5 zeolites by atom probe tomography, nuclear magnetic resonance and powder X-ray diffraction. *Physical Chemistry Chemical Physics*, **2018**, 20, 27766-27777	3.6	13
71	Revealing the beneficial role of K in grain interiors, grain boundaries, and at the buffer interface for highly efficient CuInSe2 solar cells. *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 825-834	6.8	15
70	Compositional analysis on the reverted austenite and tempered martensite in a Ti-stabilized supermartensitic stainless steel: Segregation, partitioning and carbide precipitation. *Materials and Design*, **2018**, 140, 95-105	8.1	35
69	Hot Straining and Quenching and Partitioning of a TRIP-Assisted Steel: Microstructural Characterization and Mechanical Properties. *Materials Science Forum*, **2018**, 941, 704-710	0.4	0
68	Carbon Clustering in Low-Temperature Bainite. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 5277-5287	2.3	15
67	Lattice distortion in a strong and ductile refractory high-entropy alloy. *Acta Materialia*, **2018**, 160, 158-172	8.4	173
66	Efficient, Parallel At-scale Correlation Analysis for Atom Probe Tomography on Hybrid Architectures **2018**,		1
65	The Influence of Local Distortions on Proton Mobility in Acceptor Doped Perovskites. *Chemistry of Materials*, **2018**, 30, 4919-4925	9.6	23
64	The effect of carbon on the microstructures, mechanical properties, and deformation mechanisms of thermo-mechanically treated Fe40.4Ni11.3Mn34.8Al7.5Cr6 high entropy alloys. *Acta Materialia*, **2017**, 126, 346-360	8.4	139
63	Microstructural evolution of single Ni2TiAl or hierarchical NiAl/Ni2TiAl precipitates in Fe-Ni-Al-Cr-Ti ferritic alloys during thermal treatment for elevated-temperature applications. *Acta Materialia*, **2017**, 127, 1-16	8.4	44
62	Characterization of the effects of different tempers and aging temperatures on the precipitation behavior of Al-Mg (5.25 at.%)-Mn alloys. *Materials and Design*, **2017**, 118, 22-35	8.1	21
61	Characterizing and modeling the precipitation of Mg-rich phases in Al 5xxx alloys aged at low temperatures. *Journal of Materials Science and Technology*, **2017**, 33, 991-1003	9.1	18
60	Microstructural and magnetic property evolution with different heat-treatment conditions in an alnico alloy. *Acta Materialia*, **2017**, 133, 73-80	8.4	34
59	Quantitative assessment of carbon allocation anomalies in low temperature bainite. *Acta Materialia* , **2017**, 133, 333-345	8.4	42
58	Primary and secondary precipitates in a hierarchical-precipitate-strengthened ferritic alloy. *Journal of Alloys and Compounds*, **2017**, 706, 584-588	5.7	12

57	Secondary phases in AlxCoCrFeNi high-entropy alloys: An in-situ TEM heating study and thermodynamic appraisal. *Acta Materialia*, **2017**, 131, 206-220	8.4	194
56	Carbon concentration measurements by atom probe tomography in the ferritic phase of high-silicon steels. *Acta Materialia*, **2017**, 125, 359-368	8.4	29
55	Accurate Quantification of Si/SiGe Interface Profiles via Atom Probe Tomography. *Advanced Materials Interfaces*, **2017**, 4, 1700622	4.6	14
54	Rapid Diffusion and Nanosegregation of Hydrogen in Magnesium Alloys from Exposure to Water. *ACS Applied Materials & Interfaces*, **2017**, 9, 38125-38134	9.5	10
53	Atom-probe study of Cu and NiAl nanoscale precipitation and interfacial segregation in a nanoparticle-strengthened steel. *Materials Research Letters*, **2017**, 5, 562-568	7.4	22
52	Nanoscale Chemical Imaging of Coking Mechanisms in a Zeolite ZSM-5 Crystal by Atom Probe Tomography. *Microscopy and Microanalysis*, **2017**, 23, 674-675	0.5	5
51	Heterogeneous Creep Deformations and Correlation to Microstructures in Fe-30Cr-3Al Alloys Strengthened by an Fe2Nb Laves Phase. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 4598-4614	2.3	13
50	Nanoscale tomography reveals the deactivation of automotive copper-exchanged zeolite catalysts. *Nature Communications*, **2017**, 8, 1666	17.4	74
49	Atom Probe Tomography Unveils Formation Mechanisms of Wear-Protective Tribofilms by ZDDP, Ionic Liquid, and Their Combination. *ACS Applied Materials & Interfaces*, **2017**, 9, 23152-23163	9.5	26
48	Understanding individual defects in CdTe thin-film solar cells via STEM: From atomic structure to electrical activity. *Materials Science in Semiconductor Processing*, **2017**, 65, 64-76	4.3	22
47	Recent Progress of Correlative Transmission Electron Microscopy and Atom Probe Tomography for Materials Characterization. *Microscopy and Microanalysis*, **2017**, 23, 692-693	0.5	
46	Structure and dynamics of shear bands in amorphous□rystalline nanolaminates. *Scripta Materialia*, **2016**, 110, 28-32	5.6	21
45	The effect of interstitial carbon on the mechanical properties and dislocation substructure evolution in Fe40.4Ni11.3Mn34.8Al7.5Cr6 high entropy alloys. *Acta Materialia*, **2016**, 120, 228-239	8.4	250
44	Atomic migration of carbon in hard turned layers of carburized bearing steel. *CIRP Annals - Manufacturing Technology*, **2016**, 65, 85-88	4.9	5
43	Understanding phase stability of Al-Co-Cr-Fe-Ni high entropy alloys. *Materials and Design*, **2016**, 109, 425-433	8.1	154
42	Complex Nano-Scale Structures for Unprecedented Properties in Steels. *Materials Science Forum*, **2016**, 879, 2401-2406	0.4	2
41	Characterizing Alnico Alloy by Correlative STEM-EDS Tomography and Atom Probe Tomography. *Microscopy and Microanalysis*, **2016**, 22, 668-669	0.5	
40	Visualization of Current and Mapping of Elements in Quantum Dot Solar Cells. *Advanced Functional Materials*, **2016**, 26, 895-902	15.6	1

39	Nanoscale doping profiles within CdTe grain boundaries and at the CdS/CdTe interface revealed by atom probe tomography and STEM EBIC. *Solar Energy Materials and Solar Cells*, **2016**, 150, 95-101	6.4	26
38	The role of silicon, vacancies, and strain in carbon distribution in low temperature bainite. *Journal of Alloys and Compounds*, **2016**, 673, 289-294	5.7	9
37	Spinodal Decomposition in an Alnico Alloy. *Microscopy and Microanalysis*, **2016**, 22, 670-671	0.5	2
36	Quantification of Atomic Arrangements at Heterostructure Interfaces. *Microscopy and Microanalysis* , **2016**, 22, 1502-1503	0.5	
35	Considerations and Challenges with Characterizing Si/SiGe Interfaces. *Microscopy and Microanalysis*, **2016**, 22, 1450-1451	0.5	
34	Coke Formation in a Zeolite Crystal During the Methanol-to-Hydrocarbons Reaction as Studied with Atom Probe Tomography. *Angewandte Chemie*, **2016**, 128, 11339-11343	3.6	13
33	Correlative Energy-Dispersive X-Ray Spectroscopic Tomography and Atom Probe Tomography of the Phase Separation in an Alnico 8 Alloy. *Microscopy and Microanalysis*, **2016**, 22, 1251-1260	0.5	25
32	Atom Probe Tomography of Interfacial Segregation in CdTe-based Solar Cells. *Microscopy and Microanalysis*, **2016**, 22, 646-647	0.5	
31	Effects of Fe concentration on the ion-irradiation induced defect evolution and hardening in Ni-Fe solid solution alloys. *Acta Materialia*, **2016**, 121, 365-373	8.4	54
30	Structural and compositional dependence of the CdTexSe1-x alloy layer photoactivity in CdTe-based solar cells. *Nature Communications*, **2016**, 7, 12537	17.4	82
29	APT mass spectrometry and SEM data for CdTe solar cells. *Data in Brief*, **2016**, 7, 779-785	1.2	1
28	Effects of welding and post-weld heat treatments on nanoscale precipitation and mechanical properties of an ultra-high strength steel hardened by NiAl and Cu nanoparticles. *Acta Materialia*, **2016**, 120, 216-227	8.4	25
27	An atom probe perspective on phase separation and precipitation in duplex stainless steels. *Nanotechnology*, **2016**, 27, 254004	3.4	36
26	Coke Formation in a Zeolite Crystal During the Methanol-to-Hydrocarbons Reaction as Studied with Atom Probe Tomography. *Angewandte Chemie - International Edition*, **2016**, 55, 11173-7	16.4	56
25	Perovskite Solar Cells with Near 100% Internal Quantum Efficiency Based on Large Single Crystalline Grains and Vertical Bulk Heterojunctions. *Journal of the American Chemical Society*, **2015** , 137, 9210-3	16.4	210
24	Phase Separation in Lean-Grade Duplex Stainless Steel 2101. *Jom*, **2015**, 67, 2216-2222	2.1	10
23	Current Enhancement of CdTe-Based Solar Cells. *IEEE Journal of Photovoltaics*, **2015**, 5, 1492-1496	3.7	35
22	CdSe1_xTex Phase Segregation in CdSe/CdTe Based Solar Cells. *Microscopy and Microanalysis*, **2015**, 21, 691-692	0.5	2

21	Ferritic Alloys with Extreme Creep Resistance via Coherent Hierarchical Precipitates. *Scientific Reports*, **2015**, 5, 16327	4.9	66
20	Controllable Growth of Perovskite Films by Room-Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. *Angewandte Chemie - International Edition*, **2015**, 54, 14862-5	16.4	37
19	Controllable Growth of Perovskite Films by Room-Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. *Angewandte Chemie*, **2015**, 127, 15075-15078	3.6	2
18	Physics of grain boundaries in polycrystalline photovoltaic semiconductors. *Journal of Applied Physics*, **2015**, 117, 112807	2.5	44
17	Grain-boundary-enhanced carrier collection in CdTe solar cells. *Physical Review Letters*, **2014**, 112, 156103	7.4	210
16	Disordered grain growth in polycrystalline GaN obtained by the polymer-derived-ceramic route. *RSC Advances*, **2014**, 4, 2634-2639	3.7	5
15	Direct Electronic Property Imaging of a Nanocrystal-Based Photovoltaic Device by Electron Beam-Induced Current via Scanning Electron Microscopy. *Journal of Physical Chemistry Letters*, **2014** , 5, 856-60	6.4	9
14	Direct Imaging of Cl- and Cu-Induced Short-Circuit Efficiency Changes in CdTe Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1400454	21.8	58
13	Defect Physics in Photovoltaic Materials Revealed by Combined High-Resolution Microscopy and Density-Functional Theory Calculation. *Microscopy and Microanalysis*, **2014**, 20, 514-515	0.5	1
12	Understanding Individual Defects in CdTe Solar Cells: From Atomic Structure to Electrical Activity. *Microscopy and Microanalysis*, **2014**, 20, 518-519	0.5	1
11	S□e Interdiffusion within Grains and Grain Boundaries in CdTe Solar Cells. *IEEE Journal of Photovoltaics*, **2014**, 4, 1636-1643	3.7	23
10	The role of donor-acceptor pairs in the excitation of Eu-ions in GaN:Eu epitaxial layers. *Journal of Applied Physics*, **2014**, 115, 204501	2.5	38
9	From atomic structure to photovoltaic properties in CdTe solar cells. *Ultramicroscopy*, **2013**, 134, 113-125	3.1	65
8	Defect roles in the excitation of Eu ions in Eu:GaN. *Optics Express*, **2013**, 21, 30633-41	3.3	8
7	Effect of thermal annealing on luminescence properties of Eu,Mg-codoped GaN grown by organometallic vapor phase epitaxy. *Applied Physics Letters*, **2013**, 102, 141904	3.4	16
6	High-resolution confocal microscopy with simultaneous electron and laser beam irradiation. *Microscopy and Microanalysis*, **2012**, 18, 1263-9	0.5	8
5	Approaches for high internal quantum efficiency green InGaN light-emitting diodes with large overlap quantum wells. *Optics Express*, **2011**, 19 Suppl 4, A991-A1007	3.3	477
4	Near-infrared photoluminescence properties of neodymium in in situ doped AlN grown using plasma-assisted molecular beam epitaxy. *Optical Materials Express*, **2011**, 1, 78	2.6	10

3	Nature and Excitation Mechanism of the Emission-dominating Minority Eu-center in GaN Grown by Organometallic Vapor-phase Epitaxy. *Materials Research Society Symposia Proceedings*, **2011**, 1342, 67		4
2	Growths of staggered InGaN quantum wells light-emitting diodes emitting at 520–525 nm employing graded growth-temperature profile. *Applied Physics Letters*, **2009**, 95, 061104	3.4	125
1	Design and characteristics of staggered InGaN quantum-well light-emitting diodes in the green spectral regime. *IET Optoelectronics*, **2009**, 3, 283-295	1.5	83