

# J T Dickinson

## List of Publications by Year in descending order

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169  
papers

3,458  
citations

147786

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197805

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171  
all docs

171  
docs citations

171  
times ranked

1594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dropwise Condensation: Experiments and Simulations of Nucleation and Growth of Water Drops in a Cooling System. <i>Langmuir</i> , 2006, 22, 8864-8872.	3.5	194
2	The emission of electrons and positive ions from fracture of materials. <i>Journal of Materials Science</i> , 1981, 16, 2897-2908.	3.7	160
3	Interactions of wide band-gap single crystals with 248 nm excimer laser radiation. I. MgO. <i>Journal of Applied Physics</i> , 1993, 74, 2323-2337.	2.5	104
4	Single asperity tribochemical wear of silicon nitride studied by atomic force microscopy. <i>Journal of Applied Physics</i> , 2002, 92, 5103-5109.	2.5	103
5	Atomic layer wear of single-crystal calcite in aqueous solution using scanning force microscopy. <i>Journal of Applied Physics</i> , 1996, 80, 2680-2686.	2.5	87
6	Positive Ion Emission from Excimer Laser Excited MgO Surfaces. <i>Physical Review Letters</i> , 1994, 73, 2630-2633.	7.8	86
7	Fractoemission from fused silica and sodium silicate glasses. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 1084-1089.	2.1	82
8	Fractoemission: The role of charge separation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1984, 2, 1112-1116.	2.1	73
9	Simultaneous measurements of the electron and photon emission accompanying fracture of single-crystal MgO. <i>Journal of Applied Physics</i> , 1987, 62, 1437-1449.	2.5	66
10	Color center formation in soda-lime glass with femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2003, 94, 4332-4340.	2.5	64
11	Interactions of wide band-gap single crystals with 248 nm excimer laser radiation. II. NaCl. <i>Journal of Applied Physics</i> , 1993, 74, 2338-2346.	2.5	60
12	Dopant induced ablation of poly(methyl methacrylate) at 308 nm. <i>Journal of Applied Physics</i> , 1999, 85, 1838-1847.	2.5	55
13	Neutral and ion emissions accompanying pulsed excimer laser irradiation of polytetrafluoroethylene. <i>Journal of Applied Physics</i> , 1993, 74, 4729-4736.	2.5	50
14	Fractoemission accompanying adhesive failure. <i>Journal of Vacuum Science and Technology</i> , 1982, 20, 436-439.	1.9	49
15	Interactions of wide band gap single crystals with 248 nm excimer laser radiation. III. The role of cleavage-induced defects in MgO. <i>Journal of Applied Physics</i> , 1993, 74, 3758-3767.	2.5	49
16	Interaction of wide band gap single crystals with 248 nm excimer laser radiation. IV. Positive ion emission from MgO and NaNO <sub>3</sub> . <i>Journal of Applied Physics</i> , 1996, 80, 6452-6466.	2.5	49
17	Observation of Unintentionally Incorporated Nitrogen-Related Complexes in ZnO and GaN Nanowires. <i>Nano Letters</i> , 2009, 9, 1844-1849.	9.1	48
18	Electron and positive ion emission accompanying fracture of Wint-o-green Lifesavers and single-crystal sucrose. <i>The Journal of Physical Chemistry</i> , 1984, 88, 1698-1701.	2.9	47

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19	Tribological Enhancement of CaCO <sub>3</sub> Dissolution during Scanning Force Microscopy. Langmuir, 1996, 12, 4599-4604.	3.5	47
20	Fractoemission from Lead Zirconate-Titanate. Journal of the American Ceramic Society, 1985, 68, 235-240.	3.8	45
21	Scanning tunneling microscope observations of the mirror region of silicate glass fracture surfaces. Journal of Materials Research, 1994, 9, 476-485.	2.6	45
22	Fractoemission from the failure of metal/epoxy interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 1398-1402.	2.1	44
23	Interaction of wide band gap single crystals with 248 nm excimer laser radiation. V. The role of photoelectronic processes in the formation of a fluorescent plume from MgO. Journal of Applied Physics, 1997, 81, 1495-1504.	2.5	44
24	Consequences of simultaneous exposure of inorganic solids to excimer laser light and an electron beam. Journal of Applied Physics, 1990, 68, 1831-1836.	2.5	41
25	Electron and photon emission accompanying deformation and fracture of polycarbonate. Journal of Polymer Science, Part B: Polymer Physics, 1993, 31, 1229-1243.	2.1	40
26	Atomic and molecular emission following fracture of alkali halides: A dislocation driven process. Journal of Materials Research, 1991, 6, 112-125.	2.6	34
27	The emission of atoms and molecules accompanying fracture of single-crystal MgO. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 1648-1652.	2.1	33
28	Production of Free Charge Carriers during Fracture of Single-Crystal Silicon. Physical Review Letters, 1987, 59, 2795-2797.	7.8	33
29	Properties of the Photon Emission Accompanying the Peeling of a Pressure-Sensitive Adhesive. Journal of Adhesion, 1988, 25, 63-77.	3.0	32
30	Photoinduced Formation of Zinc Nanoparticles by UV Laser Irradiation of ZnO. Langmuir, 2009, 25, 1930-1933.	3.5	32
31	Analysis of neutral fragments from ultraviolet laser irradiation of a photolabile triazeno polymer. Journal of Applied Physics, 1999, 86, 7116-7122.	2.5	31
32	Photon emission as a probe of chaotic processes accompanying fracture. Journal of Materials Research, 1989, 4, 1272-1279.	2.6	30
33	The role of photoelectronic processes in the formation of a fluorescent plume by 248-nm laser irradiation of single crystal NaNO <sub>3</sub> . Applied Physics A: Materials Science and Processing, 1996, 64, 7-17.	2.3	30
34	Desorption of positive ions from ionic crystals accompanying 248 nm laser irradiation. Applied Physics Letters, 2000, 76, 421-423.	3.3	30
35	Acoustic emission and electron emission during deformation of anodized aluminium. Journal of Vacuum Science and Technology, 1980, 17, 429-432.	1.9	29
36	Production and Properties of Ejecta Released by Fracture of Materials. Journal of Adhesion, 1988, 25, 281-302.	3.0	29

#	ARTICLE	IF	CITATIONS
37	Characterization of Particulates Accompanying Laser Ablation of NaNO <sub>3</sub> . Applied Spectroscopy, 1997, 51, 707-717.	2.2	29
38	The interaction of ultraviolet excimer laser light with sodium trisilicate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 2943-2951.	2.1	28
39	Fractal character of crack propagation in epoxy and epoxy composites as revealed by photon emission during fracture. Journal of Materials Research, 1991, 6, 183-195.	2.6	28
40	The electrification of flowing gases by mechanical abrasion of mineral surfaces. Physics and Chemistry of Minerals, 1998, 25, 566-573.	0.8	28
41	Nanometer-Scale Solvent-Assisted Modification of Polymer Surfaces Using the Atomic Force Microscope. Langmuir, 2003, 19, 10225-10232.	3.5	27
42	Emission of electrons and positive ions upon fracture of oxide films. Journal of Vacuum Science and Technology, 1981, 18, 238-242.	1.9	26
43	Atomic and molecular emission accompanying fracture of single-crystal Ge: A dislocation-driven process. Physical Review Letters, 1991, 66, 2120-2123.	7.8	26
44	Effect of tribological wear on ultraviolet laser interactions with single crystal NaNO <sub>3</sub> and CaCO <sub>3</sub> . Journal of Applied Physics, 1996, 80, 7065-7072.	2.5	26
45	Fundamental Studies of Nanometer-Scale Wear Mechanisms. MRS Bulletin, 2008, 33, 1174-1180.	3.5	26
46	Fracto-emission from pentaerythritol tetranitrate and cyclotetramethylene tetranitramine single crystals. Applied Physics Letters, 1982, 41, 924-926.	3.3	25
47	Fracto-emission from deuterated titanium: Supporting evidence for a fracto-fusion mechanism. Journal of Materials Research, 1990, 5, 109-122.	2.6	25
48	Electron and photon emission accompanying the abrasion of MgO with diamond. Tribology Letters, 1995, 1, 147.	2.6	24
49	Time correlations of electron and positive ion emission accompanying and following fracture of a filled elastomer. Applied Physics Letters, 1982, 41, 443-445.	3.3	23
50	Alkali emission accompanying fracture of sodium silicate glasses. Journal of Materials Research, 1991, 6, 1358-1368.	2.6	23
51	Effect of surface treatments on self-trapped exciton luminescence in single-crystal CaF <sub>2</sub> . Journal of Applied Physics, 2005, 97, 103533.	2.5	23
52	The formation of metallic nanoparticles in single crystal CaF <sub>2</sub> under 157nm excimer laser irradiation. Journal of Applied Physics, 2006, 99, 054305.	2.5	23
53	Emission of neutral particles from anodized aluminum surfaces during tensile deformation. Journal of Vacuum Science and Technology, 1979, 16, 590-593.	1.9	22
54	Crack velocity dependence of electron emission during fracture of filled elastomers. Journal of Polymer Science, Polymer Physics Edition, 1982, 20, 1925-1932.	1.0	21

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55	Time and Size Correlations of Photon and Radiowave Bursts from Peeling Pressure Sensitive Adhesives in Air. <i>Journal of Adhesion</i> , 1986, 19, 267-286.	3.0	21
56	Positive-ion emission from the fracture of fused silica. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 1829-1834.	2.1	21
57	Mass-to-charge ratio and kinetic energy of positive ion emission accompanying fracture of a filled elastomer. <i>Applied Physics Letters</i> , 1982, 41, 827-829.	3.3	20
58	Fracto-Emission from Filled and Unfilled Elastomers. <i>Rubber Chemistry and Technology</i> , 1983, 56, 927-941.	1.2	20
59	Electron emission and acoustic emission from the fracture of graphite/epoxy composites. <i>Journal of Materials Science</i> , 1985, 20, 229-236.	3.7	20
60	The interaction of excimer laser ultraviolet radiation with Kapton <sup>®</sup> H in vacuum and under mechanical stress. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 941-945.	2.1	20
61	Mass spectroscopy study of products from exposure of cyclotrimethylene <sup>®</sup> trinitramine single crystals to KrF excimer laser radiation. <i>Journal of Applied Physics</i> , 1990, 67, 3641-3651.	2.5	20
62	Electrical transients during interfacial debonding and pullout of a metal rod from an epoxy matrix. <i>Journal of Applied Physics</i> , 1991, 70, 4808-4815.	2.5	20
63	Fracto-emission from filled and unfilled polybutadiene. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1985, 23, 873-888.	1.0	19
64	Neutral molecule emission from the fracture of crystalline MgO. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 1162-1168.	2.1	19
65	Recombination on fractal networks: Photon and electron emission following fracture of materials. <i>Journal of Materials Research</i> , 1993, 8, 2921-2932.	2.6	19
66	Interaction of wide band gap single crystals with 248 nm excimer laser irradiation. VIII. Laser desorption of molecular ions from MgO. <i>Journal of Applied Physics</i> , 2001, 89, 2950-2957.	2.5	19
67	Laser interactions with embedded Ca metal nanoparticles in single crystal CaF <sub>2</sub> . <i>Journal of Applied Physics</i> , 2005, 97, 074307.	2.5	19
68	Tribochemical wear of sodium trisilicate glass at the nanometer size scale. <i>Journal of Applied Physics</i> , 2006, 99, 023529.	2.5	19
69	Scanning tunneling microscope observations of MgO fracture surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 3470-3478.	2.1	18
70	Fracto-emission from high density polyethylene: Bond breaking versus tribological stimulation. <i>Journal of Applied Physics</i> , 1993, 73, 3047-3054.	2.5	18
71	Negative charge emission due to excimer laser bombardment of sodium trisilicate glass. <i>Journal of Applied Physics</i> , 1990, 68, 4253-4257.	2.5	17
72	Interaction of wide band gap single crystals with 248 nm excimer laser irradiation. VII. Localized plasma formation on NaCl single crystal surfaces. <i>Journal of Applied Physics</i> , 2001, 89, 2370-2378.	2.5	17

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73	Triboelectric charging of a perfluoropolyether lubricant. <i>Journal of Applied Physics</i> , 2003, 93, 2202-2207.	2.5	17
74	Time-of-flight measurements of the mass-to-charge ratio of positive ion emission accompanying fracture. <i>Journal of Materials Science</i> , 1982, 17, 3173-3178.	3.7	16
75	The effect of cross-linking on fracto-emission from elastomers. <i>Journal of Materials Science</i> , 1984, 19, 1510-1516.	3.7	16
76	Scanning tunneling microscope observations of metallic glass fracture surfaces. <i>Journal of Materials Research</i> , 1993, 8, 2543-2553.	2.6	16
77	Interaction of vacuum ultraviolet excimer laser radiation with fused silica. I. Positive ion emission. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	16
78	Autographs from Peeling Pressure Sensitive Adhesives: Direct Recording of Fracture-induced Photon Emission. <i>Journal of Adhesion</i> , 1987, 24, 199-220.	3.0	15
79	Scanning-Induced Growth on Single Crystal Calcite with an Atomic Force Microscope. <i>Langmuir</i> , 2006, 22, 6931-6938.	3.5	15
80	The role of damage in post-emission of electrons from cleavage surfaces of single-crystal LiF. <i>Journal of Applied Physics</i> , 1989, 65, 1923-1928.	2.5	14
81	Laser induced electron and sodium ion emission from single crystal NaNO <sub>3</sub> at 1064 nm. <i>Journal of Applied Physics</i> , 2000, 87, 1522-1528.	2.5	14
82	Fractoemission from cyclotrimethylenetrinitramine (RDX) explosive single crystals. <i>Journal of Applied Physics</i> , 1984, 55, 3994-3998.	2.5	13
83	Fracto-emission from neat epoxy resin. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1987, 7, 129-152.	0.6	13
84	Interaction of vacuum ultraviolet excimer laser radiation with fused silica. III. Negative ion formation. <i>Journal of Applied Physics</i> , 2010, 107, 033109.	2.5	13
85	Fracto-Emission Accompanying Adhesive Failure. , 1984, , 193-243.		13
86	The emission of electrons and positive ions from fracture of materials. <i>Journal of Materials Science</i> , 1981, 16, 2897-2908.	3.7	13
87	Fracto-emission from embedded interfaces. <i>Journal of Applied Physics</i> , 1991, 70, 4797-4807.	2.5	12
88	Scanning tunneling microscope observations of polymer fracture surfaces. <i>Journal of Materials Research</i> , 1992, 7, 1292-1302.	2.6	12
89	Temperature measurements of the gaseous emission during the fracture of polystyrene: A determination of the fracture energy and fracture surface temperature. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 779-784.	2.1	12
90	Controlling Nanometer-Scale Crystal Growth on a Model Biomaterial with a Scanning Force Microscope. <i>Langmuir</i> , 2002, 18, 7773-7776.	3.5	11

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91	Transient current generation during wear of high-density polyethylene by a stainless-steel stylus. Journal of Applied Physics, 2003, 93, 719-730.	2.5	11
92	Electron-beam-induced fracture of polymers. Journal of Polymer Science, Polymer Physics Edition, 1985, 23, 2273-2293.	1.0	10
93	Anisotropy effects on fractoemission from MgF <sub>2</sub> single crystals. Applied Physics Letters, 1989, 55, 354-356.	3.3	10
94	Fractoemission during the interfacial failure of a metal-oxide-semiconductor system: Au-SiO <sub>2</sub> -Si. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1990, 8, 2401-2406.	2.1	10
95	Chemisorptive electron emission as a probe of plastic deformation in reactive metals. Journal of Materials Research, 1994, 9, 1156-1165.	2.6	10
96	Interaction of wide-band-gap single crystals with 248-nm excimer laser irradiation. IX. Photoinduced atomic desorption from cleaved NaCl(100) surfaces. Journal of Applied Physics, 2005, 98, 013506.	2.5	10
97	The role of defects in the rear side laser ablation of MgO at 308 nm. Journal of Applied Physics, 1996, 80, 7057-7064.	2.5	9
98	Scanning force microscope observations of particle detachment from substrates: The role of water vapor in tribological debonding. Journal of Applied Physics, 1999, 86, 4885-4891.	2.5	9
99	Interaction of wide band gap single crystals with 248nm excimer laser radiation. XII. The emission of negative atomic ions from alkali halides. Journal of Applied Physics, 2007, 102, .	2.5	9
100	Interaction of vacuum ultraviolet excimer laser radiation with fused silica: II. Neutral atom and molecule emission. Journal of Applied Physics, 2010, 107, 033108.	2.5	9
101	Fractoemission from single-crystal pentaerythritol tetranitrate. Journal of Applied Physics, 1985, 57, 5048-5055.	2.5	8
102	Fracture induced emission of alkali atoms from feldspar. Physics and Chemistry of Minerals, 1992, 18, 453.	0.8	8
103	Interaction of wide-band-gap single crystals with 248-nm excimer laser irradiation. X. Laser-induced near-surface absorption in single-crystal NaCl. Journal of Applied Physics, 2005, 97, 043501.	2.5	8
104	F <sub>2</sub> excimer laser (157 nm) ablation of polymers: relation of neutral and ionic fragment detection and absorption. Journal of Physics: Conference Series, 2007, 59, 625-631.	0.4	8
105	Atomic force microscopy studies of chemical-mechanical processes on silicon(100) surfaces. Applied Physics A: Materials Science and Processing, 2009, 94, 35-43.	2.3	8
106	Scattering of Metastable Molecules from a Gas-Covered (100) Surface of Germanium. Journal of Vacuum Science and Technology, 1973, 10, 319-324.	1.9	7
107	Reply to ?comments on ?on the question of emission of charged particles in the case of failure of solids??. Journal of Materials Science, 1984, 19, 2426-2430.	3.7	7
108	Fractoemission accompanying adhesive failure between rocket propellant constituents. Journal of Applied Physics, 1987, 62, 2965-2971.	2.5	7

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109	Emission of Particles and Photons from the Fracture of Minerals and Inorganic Materials. ACS Symposium Series, 1990, , 224-244.	0.5	7
110	Ablation of Single Crystal MgO by UV Excimer Irradiation. Materials Research Society Symposia Proceedings, 1991, 236, 21.	0.1	7
111	A combined study of surface roughness in polycrystalline aluminium during uniaxial deformation using laser-induced photoemission and confocal microscopy. Philosophical Magazine, 2007, 87, 907-924.	1.6	7
112	Positive ion emission from oxidized aluminum during ultraviolet excimer laser irradiation. Journal of Applied Physics, 2011, 110, 023110.	2.5	7
113	The interaction of 193-nm excimer laser irradiation with single-crystal zinc oxide: Positive ion emission. Journal of Applied Physics, 2012, 111, 063101.	2.5	7
114	Simultaneous bombardment of wide bandgap materials with UV excimer irradiation and keV electrons. Lecture Notes in Physics, 1991, , 301-310.	0.7	7
115	Fracto-emission from single fibres of Kevlar. Journal of Materials Science, 1985, 20, 1835-1841.	3.7	6
116	Autographs from Peeling Fiber Reinforced Pressure Sensitive Adhesives: Correlation with Failure Mechanisms. Journal of Adhesion, 1989, 30, 13-23.	3.0	6
117	Particle emission from Si3N4 surface by excimer laser radiation. Journal of Materials Science Letters, 1995, 14, 898-900.	0.5	6
118	Interaction of wide-band-gap single crystals with 248-nm excimer laser radiation. XI. The effect of water vapor and temperature on laser desorption of neutral atoms from sodium chloride. Journal of Applied Physics, 2005, 97, 043502.	2.5	6
119	Molecular CO emission accompanying fracture of polycarbonate: Evidence for chain cleavage. Journal of Materials Research, 1993, 8, 14-17.	2.6	6
120	Excimer Laser Ablation of Sodium Trisilicate Glass. Materials Research Society Symposia Proceedings, 1988, 129, 385.	0.1	5
121	Fracto-Emission from Interfacial Failure. Materials Research Society Symposia Proceedings, 1989, 153, 331.	0.1	5
122	Emission of occluded volatiles during deformation of polycarbonate due to strain-enhanced diffusion. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 993-999.	2.1	5
123	The use of scanning conduction microscopy to probe abrasion of insulating thin films. Review of Scientific Instruments, 1995, 66, 3802-3806.	1.3	5
124	Chemisorptive electron emission and atomic force microscopy as probes of plastic deformation during fracture at a metal/glass interface. Journal of Materials Research, 1995, 10, 2033-2041.	2.6	5
125	Ablation mechanism of PTFE under 157Ånm irradiation. Applied Physics A: Materials Science and Processing, 2008, 92, 981-985.	2.3	5
126	Electrical Breakdown Induced by Fracto-Emission. IEEE Transactions on Electrical Insulation, 1984, EI-19, 578-585.	0.8	4



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127	Fractoemission from Epoxy and Epoxy Composites. ACS Symposium Series, 1988, , 145-168.	0.5	4
128	Electrical charge measurements on ejecta from impact loading of explosive crystals. Journal of Materials Science, 1989, 24, 4453-4457.	3.7	4
129	Mechanisms of Excimer Laser Ablation of Wide Band-Gap Materials: the Role of Defects in Single Crystal MgO. Materials Research Society Symposia Proceedings, 1992, 285, 131.	0.1	4
130	Ar atom emission as a probe of craze formation and craze growth in polystyrene. Journal of Polymer Science, Part B: Polymer Physics, 1993, 31, 1441-1449.	2.1	4
131	Emission of neutral Mg from single crystal MgO during abrasion with diamond. Journal of Applied Physics, 2003, 93, 1819-1825.	2.5	4
132	Influence of Molecular Weight on Nanoscale Modification of Poly(methyl methacrylate) Due to Simultaneous Mechanical and Chemical Stimulation. Langmuir, 2006, 22, 3320-3325.	3.5	4
133	Emission of Negative Potassium Ions from Single Crystal Potassium Bromide during Exposure to 248-nm Excimer Laser Radiation. Journal of Physical Chemistry C, 2010, 114, 5700-5708.	3.1	4
134	Dissipative Processes Accompanying Fracture. , 1992, , 1-32.		4
135	Simultaneous measurements of photoemission and morphology of various Al alloys during mechanical deformation. Journal of Applied Physics, 2006, 100, 103518.	2.5	3
136	Nanoscale craters in poly(methyl methacrylate) formed by exposure to condensing solvent vapor. Journal of Materials Research, 2007, 22, 3360-3370.	2.6	3
137	The interaction of 193 nm excimer laser radiation with single-crystal zinc oxide: Neutral atomic zinc and oxygen emission. Journal of Applied Physics, 2013, 114, .	2.5	3
138	Crack initiation and crack growth in polymers induced by electron bombardment. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 1076-1081.	2.1	2
139	Laser ablation of wide band-gap materials: The role of defects in single crystal MgO. AIP Conference Proceedings, 1993, , .	0.4	2
140	Interaction of wide band gap single crystals with 248 nm excimer laser irradiation. VI. The influence of thermal pretreatment on laser desorption of positive ions from a water-containing ionic crystal (CaHPO <sub>4</sub> ·2H <sub>2</sub> O). Journal of Applied Physics, 2000, 88, 647-656.	2.5	2
141	Mechanical Detachment of Nanometer Particles Strongly Adhering to a Substrate: An Application of Corrosive Tribology. Journal of Adhesion, 2000, 74, 373-390.	3.0	2
142	Observation of negative alkali ions from alkali halides during 248-nm laser irradiation. Applied Physics A: Materials Science and Processing, 2008, 92, 1025-1030.	2.3	2
143	Tribochemical wear of single crystal aluminum in NaCl solution studied by atomic force microscopy. Journal of Applied Physics, 2011, 110, .	2.5	2
144	The interaction of 193-nm excimer laser radiation with single-crystal zinc oxide: The generation of atomic Zn line emission at laser fluences below breakdown. Journal of Applied Physics, 2013, 114, .	2.5	2

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145	Summary Abstract: Correlations in time of electron and positive ion emission accompanying fracture. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 1160-1161.	2.1	1
146	Photon-Emission From Peeling Pressure Sensitive Adhesives. , 1988, 0910, 13.		1
147	Fractoe emission accompanying adhesive failure in a model fiber pullout system. Makromolekulare Chemie Macromolecular Symposia, 1991, 41, 9-23.	0.6	1
148	Chemical Effects of substrate Temperature and Feed Gas Composition on Ion Beam Deposited AlN and AlN:H. Materials Research Society Symposia Proceedings, 1995, 388, 367.	0.1	1
149	Positive Ion Emission Accompanying UV Irradiation of Single Crystal MgO and $\text{NiO}$ . Materials Research Society Symposia Proceedings, 1995, 397, 33.	0.1	1
150	A scanning conduction microscopic method for probing abrasion of insulating thin films. Tribology Letters, 1995, 1, 159.	2.6	1
151	Fundamental studies of laser desorption from modified surfaces of ionic single crystals. Radiation Effects and Defects in Solids, 2001, 156, 59-67.	1.2	1
152	Deformation of cube-textured aluminum studied using laser-induced photoelectron emission. Journal of Materials Research, 2007, 22, 2582-2589.	2.6	1
153	Ion emission from fused silica under 157-nm irradiation. Journal of Physics: Conference Series, 2007, 59, 736-739.	0.4	1
154	The effect of thermal oxidation on laser-induced photoelectron emission during tensile deformation of polycrystalline aluminum. Journal of Applied Physics, 2010, 107, 053526.	2.5	1
155	Fracto-Emission from Fiber-Reinforced and Particulate Filled Composites. , 1985, , 111-131.		1
156	Versatile System for the Study of Molecular Beam Scattering. Journal of Vacuum Science and Technology, 1973, 10, 403-403.	1.9	0
157	Fracto-Emission From Polymers, Crystals, and Interfaces. , 1987, , .		0
158	Excimer Laser Induced Damage in Stressed Polyimide Films Exposed in Air. Materials Research Society Symposia Proceedings, 1988, 100, 665.	0.1	0
159	Excimer Laser Interactions with PTFE Relevant to thin Film Growth. Materials Research Society Symposia Proceedings, 1993, 334, 359.	0.1	0
160	Spatial and Temporal Probes of Deformation and Fracture at Interfaces. Materials Research Society Symposia Proceedings, 1994, 367, 95.	0.1	0
161	Characterization of $\text{Si}_3\text{N}_4$ Surface after Excimer Laser Radiation. Journal of the Ceramic Society of Japan, 1995, 103, 128-131.	1.3	0
162	Scanning Conduction Microscopy: A Method of Probing Abrasion of Insulating Thin Films on Conducting Substrates. Materials Research Society Symposia Proceedings, 1995, 385, 221.	0.1	0

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163	Mechanisms of Excimer Laser induced Positive Ion Emission From Ionic Crystals. Materials Research Society Symposia Proceedings, 1995, 388, 15.	0.1	0
164	A Dynamic Probe of Tribological Processes at Metal-Polymer Interfaces: Transient Current Generation. ACS Symposium Series, 1999, , 272-285.	0.5	0
165	Scanning Force Microscope Studies of Detachment of Nanometer Adhering Particulates. Materials Research Society Symposia Proceedings, 1999, 566, 273.	0.1	0
166	Effect of humidity on the failure of ethylene vinyl acetate/soda lime glass interfaces using small tensile specimens. Journal of Adhesion Science and Technology, 2001, 15, 613-629.	2.6	0
167	Zinc ion and neutral emission from single crystal zinc oxide during 193-nm excimer laser exposure. , 2011, , .		0
168	The interaction of 193-nm excimer laser radiation with single-crystal zinc oxide: Generation of long lived highly excited particles with evidence of Zn Rydberg formation. Journal of Applied Physics, 2014, 116, 083711.	2.5	0
169	Fracto-Emission from Fiber-Reinforced and Particulate Filled Composites. , 1985, , 111-131.		0