

J T Dickinson

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167
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171
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3,200
ext. citations

2.7
avg, IF

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L-index

#	Paper	IF	Citations
167	Dropwise condensation: experiments and simulations of nucleation and growth of water drops in a cooling system. <i>Langmuir</i> , 2006 , 22, 8864-72	4	158
166	The emission of electrons and positive ions from fracture of materials. <i>Journal of Materials Science</i> , 1981 , 16, 2897-2908	4.3	142
165	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	95
164	Single asperity tribochemical wear of silicon nitride studied by atomic force microscopy. <i>Journal of Applied Physics</i> , 2002 , 92, 5103-5109	2.5	90
163	Positive ion emission from excimer laser excited MgO surfaces. <i>Physical Review Letters</i> , 1994 , 73, 2630-2633	2.3	81
162	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	75
161	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	2.9	70
160	Fracto-emission: The role of charge separation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1984 , 2, 1112-1116	2.9	63
159	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	58
158	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	58
157	Color center formation in soda-lime glass with femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2003 , 94, 4332-4340	2.5	55
156	Dopant induced ablation of poly(methyl methacrylate) at 308 nm. <i>Journal of Applied Physics</i> , 1999 , 85, 1838-1847	2.5	51
155	Neutral and ion emissions accompanying pulsed excimer laser irradiation of polytetrafluoroethylene. <i>Journal of Applied Physics</i> , 1993 , 74, 4729-4736	2.5	46
154	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	46
153	Observation of unintentionally incorporated nitrogen-related complexes in ZnO and GaN nanowires. <i>Nano Letters</i> , 2009 , 9, 1844-9	11.5	45
152	Fracto-emission accompanying adhesive failure. <i>Journal of Vacuum Science and Technology</i> , 1982 , 20, 436-439		45
151	Interaction of wide band gap single crystals with 248 nm excimer laser radiation. IV. Positive ion emission from MgO and NaNO ₃ . <i>Journal of Applied Physics</i> , 1996 , 80, 6452-6466	2.5	43

150	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		42
149	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. <i>Journal of Applied Physics</i> , 1997 , 81, 1495-1504	2.5	40
148	Tribological Enhancement of CaCO ₃ Dissolution during Scanning Force Microscopy <i>Langmuir</i> , 1996 , 12, 4599-4604	4	40
147	Scanning tunneling microscope observations of the mirror region of silicate glass fracture surfaces. <i>Journal of Materials Research</i> , 1994 , 9, 476-485	2.5	38
146	Fractoemission from the failure of metal/epoxy interfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1985 , 3, 1398-1402	2.9	38
145	Consequences of simultaneous exposure of inorganic solids to excimer laser light and an electron beam. <i>Journal of Applied Physics</i> , 1990 , 68, 1831-1836	2.5	37
144	Fractoemission from Lead Zirconate-Titanate. <i>Journal of the American Ceramic Society</i> , 1985 , 68, 235-240	3.8	34
143	Atomic and molecular emission following fracture of alkali halides: A dislocation driven process. <i>Journal of Materials Research</i> , 1991 , 6, 112-125	2.5	33
142	The emission of atoms and molecules accompanying fracture of single-crystal MgO. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1986 , 4, 1648-52	2.9	33
141	Electron and photon emission accompanying deformation and fracture of polycarbonate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993 , 31, 1229-1243	2.6	31
140	Photoinduced formation of zinc nanoparticles by UV laser irradiation of ZnO. <i>Langmuir</i> , 2009 , 25, 1930-34		30
139	Analysis of neutral fragments from ultraviolet laser irradiation of a photolabile triazeno polymer. <i>Journal of Applied Physics</i> , 1999 , 86, 7116-7122	2.5	30
138	Production of free charge carriers during fracture of single-crystal silicon. <i>Physical Review Letters</i> , 1987 , 59, 2795-2797	7.4	30
137	Properties of the Photon Emission Accompanying the Peeling of a Pressure-Sensitive Adhesive 1988 , 25, 63-77		29
136	Desorption of positive ions from ionic crystals accompanying 248 nm laser irradiation. <i>Applied Physics Letters</i> , 2000 , 76, 421-423	3.4	28
135	The interaction of ultraviolet excimer laser light with sodium trisilicate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989 , 7, 2943-2951	2.9	28
134	Characterization of Particulates Accompanying Laser Ablation of NaNO ₃ . <i>Applied Spectroscopy</i> , 1997 , 51, 707-717	3.1	27
133	The role of photoelectronic processes in the formation of a fluorescent plume by 248-nm laser irradiation of single crystal NaNO ₃ . <i>Applied Physics A: Materials Science and Processing</i> , 1996 , 64, 7-17	2.6	27

132	Effect of tribological wear on ultraviolet laser interactions with single crystal NaNO ₃ and CaCO ₃ . <i>Journal of Applied Physics</i> , 1996 , 80, 7065-7072	2.5	26
131	Photon emission as a probe of chaotic processes accompanying fracture. <i>Journal of Materials Research</i> , 1989 , 4, 1272-1279	2.5	26
130	Fundamental Studies of Nanometer-Scale Wear Mechanisms. <i>MRS Bulletin</i> , 2008 , 33, 1174-1180	3.2	25
129	Production and Properties of Ejecta Released by Fracture of Materials 1988 , 25, 281-302		25
128	Acoustic emission and electron emission during deformation of anodized aluminium. <i>Journal of Vacuum Science and Technology</i> , 1980 , 17, 429-432		25
127	Nanometer-Scale Solvent-Assisted Modification of Polymer Surfaces Using the Atomic Force Microscope. <i>Langmuir</i> , 2003 , 19, 10225-10232	4	24
126	Atomic and molecular emission accompanying fracture of single-crystal Ge: A dislocation-driven process. <i>Physical Review Letters</i> , 1991 , 66, 2120-2123	7.4	24
125	Fractal character of crack propagation in epoxy and epoxy composites as revealed by photon emission during fracture. <i>Journal of Materials Research</i> , 1991 , 6, 183-195	2.5	24
124	Fracto-emission from deuterated titanium: Supporting evidence for a fracto-fusion mechanism. <i>Journal of Materials Research</i> , 1990 , 5, 109-122	2.5	24
123	The electrification of flowing gases by mechanical abrasion of mineral surfaces. <i>Physics and Chemistry of Minerals</i> , 1998 , 25, 566-573	1.6	23
122	Fracto-emission from pentaerythritol tetranitrate and cyclotetramethylene tetranitramine single crystals. <i>Applied Physics Letters</i> , 1982 , 41, 924-926	3.4	23
121	Alkali emission accompanying fracture of sodium silicate glasses. <i>Journal of Materials Research</i> , 1991 , 6, 1358-1368	2.5	21
120	Time and Size Correlations of Photon and Radiowave Bursts from Peeling Pressure Sensitive Adhesives in Air 1986 , 19, 267-286		21
119	Emission of electrons and positive ions upon fracture of oxide films. <i>Journal of Vacuum Science and Technology</i> , 1981 , 18, 238-242		21
118	Effect of surface treatments on self-trapped exciton luminescence in single-crystal CaF ₂ . <i>Journal of Applied Physics</i> , 2005 , 97, 103533	2.5	20
117	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	2.9	20
116	Mass spectroscopy study of products from exposure of cyclotrimethylene-trinitramine single crystals to KrF excimer laser radiation. <i>Journal of Applied Physics</i> , 1990 , 67, 3641-3651	2.5	20
115	Electron and photon emission accompanying the abrasion of MgO with diamond. <i>Tribology Letters</i> , 1995 , 1, 147	2.8	19

114	Fracto-Emission from Filled and Unfilled Elastomers. <i>Rubber Chemistry and Technology</i> , 1983 , 56, 927-941.	1.7	19
113	Electron emission and acoustic emission from the fracture of graphite/epoxy composites. <i>Journal of Materials Science</i> , 1985 , 20, 229-236	4.3	19
112	Time correlations of electron and positive ion emission accompanying and following fracture of a filled elastomer. <i>Applied Physics Letters</i> , 1982 , 41, 443-445	3.4	19
111	Crack velocity dependence of electron emission during fracture of filled elastomers. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1982 , 20, 1925-1932		19
110	Tribochemical wear of sodium trisilicate glass at the nanometer size scale. <i>Journal of Applied Physics</i> , 2006 , 99, 023529	2.5	18
109	Fracto-emission from high density polyethylene: Bond breaking versus tribological stimulation. <i>Journal of Applied Physics</i> , 1993 , 73, 3047-3054	2.5	18
108	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	2.9	18
107	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	18
106	The formation of metallic nanoparticles in single crystal CaF ₂ under 157nm excimer laser irradiation. <i>Journal of Applied Physics</i> , 2006 , 99, 054305	2.5	17
105	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	2.9	17
104	The interaction of excimer laser ultraviolet radiation with Kapton-H in vacuum and under mechanical stress. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988 , 6, 941-945	2.9	17
103	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	3.4	17
102	Emission of neutral particles from anodized aluminum surfaces during tensile deformation. <i>Journal of Vacuum Science and Technology</i> , 1979 , 16, 590-593		17
101	Triboelectric charging of a perfluoropolyether lubricant. <i>Journal of Applied Physics</i> , 2003 , 93, 2202-2207	2.5	16
100	Laser interactions with embedded Ca metal nanoparticles in single crystal CaF ₂ . <i>Journal of Applied Physics</i> , 2005 , 97, 074307	2.5	16
99	Negative charge emission due to excimer laser bombardment of sodium trisilicate glass. <i>Journal of Applied Physics</i> , 1990 , 68, 4253-4257	2.5	16
98	The effect of cross-linking on fracto-emission from elastomers. <i>Journal of Materials Science</i> , 1984 , 19, 1510-1516	4.3	16
97	Fracto-emission from filled and unfilled polybutadiene. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1985 , 23, 873-888		16

96	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	15
95	Scanning tunneling microscope observations of metallic glass fracture surfaces. <i>Journal of Materials Research</i> , 1993 , 8, 2543-2553	2.5	15
94	Recombination on fractal networks: Photon and electron emission following fracture of materials. <i>Journal of Materials Research</i> , 1993 , 8, 2921-2932	2.5	15
93	Scanning-induced growth on single crystal calcite with an atomic force microscope. <i>Langmuir</i> , 2006 , 22, 6931-8	4	14
92	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	14
91	Autographs from Peeling Pressure Sensitive Adhesives: Direct Recording of Fracture-induced Photon Emission 1987 , 24, 199-220		14
90	Interaction of vacuum ultraviolet excimer laser radiation with fused silica. I. Positive ion emission. <i>Journal of Applied Physics</i> , 2010 , 107, 033107	2.5	13
89	Laser induced electron and sodium ion emission from single crystal NaNO ₃ at 1064 nm. <i>Journal of Applied Physics</i> , 2000 , 87, 1522-1528	2.5	13
88	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	2.6	12
87	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	12
86	Fracto-emission from neat epoxy resin. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1987 , 7, 129-152		12
85	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	4.3	12
84	Fracto-Emission Accompanying Adhesive Failure 1984 , 193-243		12
83	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	11
82	Fractoemission from cyclotrimethylenetrinitramine (RDX) explosive single crystals. <i>Journal of Applied Physics</i> , 1984 , 55, 3994-3998	2.5	11
81	Transient current generation during wear of high-density polyethylene by a stainless-steel stylus. <i>Journal of Applied Physics</i> , 2003 , 93, 719-730	2.5	10
80	Fracto-emission from embedded interfaces. <i>Journal of Applied Physics</i> , 1991 , 70, 4797-4807	2.5	10
79	Scanning tunneling microscope observations of polymer fracture surfaces. <i>Journal of Materials Research</i> , 1992 , 7, 1292-1302	2.5	10

78	Electron-beam-induced fracture of polymers. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1985 , 23, 2273-2293		10
77	The emission of electrons and positive ions from fracture of materials 1981 , 16, 2897		10
76	Interaction of wide band gap single crystals with 248nm excimer laser radiation. XII. The emission of negative atomic ions from alkali halides. <i>Journal of Applied Physics</i> , 2007 , 102, 114904	2.5	9
75	Interaction of wide-band-gap single crystals with 248-nm excimer laser irradiation. IX. Photoinduced atomic desorption from cleaved NaCl(100) surfaces. <i>Journal of Applied Physics</i> , 2005 , 98, 013506	2.5	9
74	Controlling Nanometer-Scale Crystal Growth on a Model Biomaterial with a Scanning Force Microscope. <i>Langmuir</i> , 2002 , 18, 7773-7776	4	9
73	The role of defects in the rear side laser ablation of MgO at 308 nm. <i>Journal of Applied Physics</i> , 1996 , 80, 7057-7064	2.5	9
72	Fracto-emission during the interfacial failure of a metaloxide-semiconductor system: AuSiO ₂ Si. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990 , 8, 2401-2406	2.9	9
71	Interaction of vacuum ultraviolet excimer laser radiation with fused silica: II. Neutral atom and molecule emission. <i>Journal of Applied Physics</i> , 2010 , 107, 033108	2.5	8
70	Fracture induced emission of alkali atoms from feldspar. <i>Physics and Chemistry of Minerals</i> , 1992 , 18, 453	1.6	8
69	Atomic force microscopy studies of chemicalmechanical processes on silicon(100) surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 35-43	2.6	7
68	Positive ion emission from oxidized aluminum during ultraviolet excimer laser irradiation. <i>Journal of Applied Physics</i> , 2011 , 110, 023110	2.5	7
67	The interaction of 193-nm excimer laser irradiation with single-crystal zinc oxide: Positive ion emission. <i>Journal of Applied Physics</i> , 2012 , 111, 063101	2.5	7
66	A combined study of surface roughness in polycrystalline aluminium during uniaxial deformation using laser-induced photoemission and confocal microscopy. <i>Philosophical Magazine</i> , 2007 , 87, 907-924	1.6	7
65	Interaction of wide-band-gap single crystals with 248-nm excimer laser irradiation. X. Laser-induced near-surface absorption in single-crystal NaCl. <i>Journal of Applied Physics</i> , 2005 , 97, 043501	2.5	7
64	Chemisorptive electron emission as a probe of plastic deformation in reactive metals. <i>Journal of Materials Research</i> , 1994 , 9, 1156-1165	2.5	7
63	Anisotropy effects on fracto-emission from MgF ₂ single crystals. <i>Applied Physics Letters</i> , 1989 , 55, 354-356	2.5	7
62	Emission of Particles and Photons from the Fracture of Minerals and Inorganic Materials. <i>ACS Symposium Series</i> , 1990 , 224-244	0.4	7
61	Fractoemission from single-crystal pentaerythritol tetranitrate. <i>Journal of Applied Physics</i> , 1985 , 57, 5048-5055	2.5	7

60	Scattering of Metastable Molecules from a Gas-Covered (100) Surface of Germanium. <i>Journal of Vacuum Science and Technology</i> , 1973 , 10, 319-324		7
59	Simultaneous bombardment of wide bandgap materials with UV excimer irradiation and keV electrons. <i>Lecture Notes in Physics</i> , 1991 , 301-310	0.8	7
58	F2 excimer laser (157 nm) ablation of polymers: relation of neutral and ionic fragment detection and absorption. <i>Journal of Physics: Conference Series</i> , 2007 , 59, 625-631	0.3	6
57	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. <i>Journal of Applied Physics</i> , 2005 , 97, 043502	2.5	6
56	Particle emission from Si ₃ N ₄ surface by excimer laser radiation. <i>Journal of Materials Science Letters</i> , 1995 , 14, 898-900		6
55	Ablation of Single Crystal MgO by UV Excimer Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 236, 21		6
54	Autographs from Peeling Fiber Reinforced Pressure Sensitive Adhesives: Correlation with Failure Mechanisms 1989 , 30, 13-23		6
53	Scanning force microscope observations of particle detachment from substrates: The role of water vapor in tribological debonding. <i>Journal of Applied Physics</i> , 1999 , 86, 4885-4891	2.5	5
52	The use of scanning conduction microscopy to probe abrasion of insulating thin films. <i>Review of Scientific Instruments</i> , 1995 , 66, 3802-3806	1.7	5
51	Fracto-Emission from Interfacial Failure. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 153, 331		5
50	Excimer Laser Ablation of Sodium Trisilicate Glass. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 129, 385		5
49	Reply to ?comments on ?on the question of emission of charged particles in the case of failure of solids??. <i>Journal of Materials Science</i> , 1984 , 19, 2426-2430	4.3	5
48	Fracto-emission from single fibres of Kevlar. <i>Journal of Materials Science</i> , 1985 , 20, 1835-1841	4.3	5
47	Molecular CO emission accompanying fracture of polycarbonate: Evidence for chain cleavage. <i>Journal of Materials Research</i> , 1993 , 8, 14-17	2.5	5
46	Emission of Negative Potassium Ions from Single Crystal Potassium Bromide during Exposure to 248-nm Excimer Laser Radiation <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5700-5708	3.8	4
45	Ablation mechanism of PTFE under 157 nm irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 981-985	2.6	4
44	Influence of molecular weight on nanoscale modification of poly(methyl methacrylate) due to simultaneous mechanical and chemical stimulation. <i>Langmuir</i> , 2006 , 22, 3320-5	4	4
43	Emission of neutral Mg from single crystal MgO during abrasion with diamond. <i>Journal of Applied Physics</i> , 2003 , 93, 1819-1825	2.5	4

42	Emission of occluded volatiles during deformation of polycarbonate due to strain-enhanced diffusion. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994 , 32, 993-999	2.6	4
41	Mechanisms of Excimer Laser Ablation of Wide Band-Gap Materials: The Role of Defects in Single Crystal MgO. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 285, 131		4
40	Electrical charge measurements on ejecta from impact loading of explosive crystals. <i>Journal of Materials Science</i> , 1989 , 24, 4453-4457	4.3	4
39	Fracto-emission accompanying adhesive failure between rocket propellant constituents. <i>Journal of Applied Physics</i> , 1987 , 62, 2965-2971	2.5	4
38	Fractoemission from Epoxy and Epoxy Composites. <i>ACS Symposium Series</i> , 1988 , 145-168	0.4	4
37	Electrical Breakdown Induced by Fracto-Emission. <i>IEEE Transactions on Electrical Insulation</i> , 1984 , EI-19, 578-585		4
36	The interaction of 193 nm excimer laser radiation with single-crystal zinc oxide: Neutral atomic zinc and oxygen emission. <i>Journal of Applied Physics</i> , 2013 , 114, 053511	2.5	3
35	Simultaneous measurements of photoemission and morphology of various Al alloys during mechanical deformation. <i>Journal of Applied Physics</i> , 2006 , 100, 103518	2.5	3
34	Nanoscale craters in poly(methyl methacrylate) formed by exposure to condensing solvent vapor. <i>Journal of Materials Research</i> , 2007 , 22, 3360-3370	2.5	3
33	Chemisorptive electron emission and atomic force microscopy as probes of plastic deformation during fracture at a metal/glass interface. <i>Journal of Materials Research</i> , 1995 , 10, 2033-2041	2.5	3
32	Time Correlation of Ion and Electron Emission from Surfaces Following Fracture. <i>Springer Series in Surface Sciences</i> , 1985 , 281-289	0.4	3
31	Dissipative Processes Accompanying Fracture 1992 , 1-32		3
30	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. <i>Journal of Applied Physics</i> , 2013 , 114, 083102	2.5	2
29	Tribochemical wear of single crystal aluminum in NaCl solution studied by atomic force microscopy. <i>Journal of Applied Physics</i> , 2011 , 110, 063509	2.5	2
28	Observation of negative alkali ions from alkali halides during 248-nm laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 1025-1030	2.6	2
27	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 ₄ ·2H ₂ O). <i>Journal of Applied Physics</i> , 2000 , 88, 647-656	2.5	2
26	Mechanical Detachment of Nanometer Particles Strongly Adhering to a Substrate: An Application of Corrosive Tribology 2000 , 74, 373-390		2
25	Ar atom emission as a probe of craze formation and craze growth in polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993 , 31, 1441-1449	2.6	2

24	Crack initiation and crack growth in polymers induced by electron bombardment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 1076-1081	2.9	2
23	The effect of thermal oxidation on laser-induced photoelectron emission during tensile deformation of polycrystalline aluminum. <i>Journal of Applied Physics</i> , 2010 , 107, 053526	2.5	1
22	Deformation of cube-textured aluminum studied using laser-induced photoelectron emission. <i>Journal of Materials Research</i> , 2007 , 22, 2582-2589	2.5	1
21	Ion emission from fused silica under 157-nm irradiation. <i>Journal of Physics: Conference Series</i> , 2007 , 59, 736-739	0.3	1
20	Fundamental studies of laser desorption from modified surfaces of ionic single crystals. <i>Radiation Effects and Defects in Solids</i> , 2001 , 156, 59-67	0.9	1
19	A scanning conduction microscopic method for probing abrasion of insulating thin films. <i>Tribology Letters</i> , 1995 , 1, 159	2.8	1
18	Chemical Effects of substrate Temperature and Feed Gas Composition on Ion Beam Deposited AlN and AlN:H. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 388, 367		1
17	Positive Ion Emission Accompanying UV Irradiation of Single Crystal MgO and NaNO ₃ . <i>Materials Research Society Symposia Proceedings</i> , 1995 , 397, 33		1
16	Photon-Emission From Peeling Pressure Sensitive Adhesives 1988 , 0910, 13		1
15	Summary Abstract: Correlations in time of electron and positive ion emission accompanying fracture. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1983 , 1, 1160-1161	2.9	1
14	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. <i>Journal of Applied Physics</i> , 2014 , 116, 083711	2.5	
13	Effect of humidity on the failure of ethylene vinyl acetate/soda lime glass interfaces using small tensile specimens. <i>Journal of Adhesion Science and Technology</i> , 2001 , 15, 613-629	2	
12	A Dynamic Probe of Tribological Processes at Metal/Polymer Interfaces: Transient Current Generation. <i>ACS Symposium Series</i> , 1999 , 272-285	0.4	
11	Scanning Force Microscope Studies of Detachment of Nanometer Adhering Particulates. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 566, 273		
10	Excimer Laser Interactions with PTFE Relevant to Thin Film Growth. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 334, 359		
9	Spatial and Temporal Probes of Deformation and Fracture at Interfaces. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 367, 95		
8	Characterization of Si ₃ N ₄ Surface after Excimer Laser Radiation. <i>Journal of the Ceramic Society of Japan</i> , 1995 , 103, 128-131		
7	Scanning Conduction Microscopy: A Method of Probing Abrasion of Insulating Thin Films on Conducting Substrates. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 385, 221		

- 6 Mechanisms of Excimer Laser induced Positive Ion Emission From Ionic Crystals. *Materials Research Society Symposia Proceedings*, **1995**, 388, 15
- 5 Fracto-emission accompanying adhesive failure in a model fiber pull-out system. *Makromolekulare Chemie Macromolecular Symposia*, **1991**, 41, 9-23
- 4 Excimer Laser Induced Damage in Stressed Polyimide Films Exposed in Air. *Materials Research Society Symposia Proceedings*, **1988**, 100, 665
- 3 Versatile System for the Study of Molecular Beam Scattering. *Journal of Vacuum Science and Technology*, **1973**, 10, 403-403
- 2 Fracto-Emission from Fiber-Reinforced and Particulate Filled Composites **1985**, 111-131
- 1 Fracto-Emission from Fiber-Reinforced and Particulate Filled Composites **1985**, 111-131