Michel Mortier

List of Publications by Year in descending order

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141 papers 4,269 citations

38 h-index 61 g-index

148 all docs 148 docs citations

times ranked

148

3957 citing authors

#	Article	IF	CITATIONS
1	Role of Thermal Heating on the Voltage Induced Insulator-Metal Transition in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub>VO<mml:mn>2</mml:mn></mml:msub></mml:math> . Physical Review Letters, 2013, 110, 056601.	7.8	238
2	Scanning thermal imaging of microelectronic circuits with a fluorescent nanoprobe. Applied Physics Letters, 2005, 87, 184105.	3.3	164
3	Near-Field Analysis of Surface Waves Launched at Nanoslit Apertures. Physical Review Letters, 2007, 98, 153902.	7.8	125
4	Synthesis and optical characterizations of Yb-doped CaF2 ceramics. Optical Materials, 2009, 31, 750-753.	3.6	113
5	Rare-earth doped transparent glass-ceramics with high cross-sections. Journal of Non-Crystalline Solids, 1999, 256-257, 361-365.	3.1	110
6	New progresses in transparent rare-earth doped glass-ceramics. Optical Materials, 2001, 16, 255-267.	3.6	110
7	Synthesis and optical characterizations of undoped and rare-earth-doped CaF2 nanoparticles. Journal of Solid State Chemistry, 2006, 179, 2636-2644.	2.9	110
8	Fluoride materials for optical applications: Single crystals, ceramics, glasses, and glass–ceramics. Journal of Fluorine Chemistry, 2011, 132, 1165-1173.	1.7	105
9	Er3+-doped PbF2: Comparison between nanocrystals in glass-ceramics and bulk single crystals. Journal of Solid State Chemistry, 2006, 179, 1995-2003.	2.9	103
10	Waterâ€inâ€Oil Microemulsion Preparation and Characterization of Cs ₂ [Mo ₆ X ₁₄]@SiO ₂ Phosphor Nanoparticles Based on Transition Metal Clusters (X = Cl, Br, and I). Advanced Materials, 2008, 20, 143-148.	21.0	103
11	Scanning thermal imaging by near-field fluorescence spectroscopy. Nanotechnology, 2009, 20, 115703.	2.6	102
12	Inorganic Molybdenum Octahedral Nanosized Cluster Units, Versatile Functional Building Block for Nanoarchitectonics. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 189-204.	3.7	102
13	Functional silica nanoparticles synthesized by water-in-oil microemulsion processes. Journal of Colloid and Interface Science, 2010, 341, 201-208.	9.4	100
14	Origin of light scattering in ytterbium doped calcium fluoride transparent ceramic for high power lasers. Journal of the European Ceramic Society, 2011, 31, 1619-1630.	5.7	98
15	Er ³⁺ -doped Nanoparticles for Optical Detection of Magnetic Field. Nano Letters, 2009, 9, 721-724.	9.1	96
16	Optical nanoheater based on the Yb^3+-Er^3+ co-doped nanoparticles. Optics Express, 2009, 17, 11794.	3.4	88
17	Rare-earth doped oxyfluoride glass-ceramics and fluoride ceramics: Synthesis and optical properties. Optical Materials, 2007, 29, 1263-1270.	3.6	81
18	Mapping and Quantifying Electric and Magnetic Dipole Luminescence at the Nanoscale. Physical Review Letters, 2014, 113, 076101.	7.8	80

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19	Erbium doped glass–ceramics: concentration effect on crystal structure and energy transfer between active ions. Journal of Alloys and Compounds, 2001, 323-324, 245-249.	5.5	79
20	Effect of CeF3Addition on the Nucleation and Up-Conversion Luminescence in Transparent Oxyfluoride Glassâ^Ceramics. Chemistry of Materials, 2005, 17, 2216-2222.	6.7	74
21	Effect of Yb3+ concentration on optical properties of Yb:CaF2 transparent ceramics. Optical Materials, 2012, 34, 965-968.	3.6	65
22	Millisecond Photon Lifetime in a Slow-Light Microcavity. Physical Review Letters, 2016, 116, 133902.	7.8	64
23	Combined theoretical and time-resolved photoluminescence investigations of [Mo ₆ Br ⁱ esub>8Br ^a ₆] ^{2â^'} metal cluster units: evidence of dual emission. Physical Chemistry Chemical Physics, 2015, 17, 28574-28585.	2.8	62
24	Stark level analysis for Er3+-doped ZBLAN glass. Optical Materials, 2001, 17, 501-511.	3.6	57
25	When "Metal Atom Clusters―Meet ZnO Nanocrystals: A ((<i>n</i> ₄ H ₉) ₄ N) ₂ Mo ₆ Br ₁₄ @ Hybrid. Advanced Materials, 2008, 20, 1710-1715.	@ Zn.O	56
26	Laser performance of diode-pumped Yb:CaF_2 optical ceramics synthesized using an energy-efficient process. Optica, 2015, 2, 288.	9.3	53
27	Time-gated luminescence bioimaging with new luminescent nanocolloids based on [Mo ₆ 1 ₈ (C ₂ F ₅ COO) ₆] ^{2â^²} metal atom clusters. Physical Chemistry Chemical Physics, 2016, 18, 30166-30173.	2.8	53
28	Nucleation efficiency of erbium and ytterbium fluorides in transparent oxyfluoride glass-ceramics. Journal of Materials Research, 2005, 20, 472-481.	2.6	50
29	Controling the coupling properties of active ultrahigh-Q WGM microcavities from undercoupling to selective amplification. Scientific Reports, 2014, 4, 4023.	3.3	50
30	Stark levels analysis for Er3+-doped oxide glasses: germanate and silicate. Optical Materials, 2001, 15, 243-260.	3.6	48
31	Between glass and crystal: glass-ceramics, a new way for optical materials. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 745-753.	0.6	45
32	Novel Nanomaterials Based on Inorganic Molybdenum Octahedral Clusters. Journal of Cluster Science, 2009, 20, 9-21.	3.3	44
33	Structural characterisation of transparent oxyfluoride glass-ceramics. Journal of Materials Science, 2000, 35, 4849-4856.	3.7	41
34	Preparation and up-conversion luminescence of 8 nm rare-earth doped fluoride nanoparticles. Optics Express, 2008, 16, 14544.	3.4	41
35	New fluoride glasses for laser applications. Journal of Non-Crystalline Solids, 2003, 326-327, 505-509.	3.1	40
36	Optical studies of Cr3+in KMgF3: Time-resolved site-selective spectroscopy and experimental evidence of spin-orbit coupling. Physical Review B, 1997, 56, 3022-3031.	3.2	39

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37	Local optical imaging of nanoholes using a single fluorescent rare-earth-doped glass particle as a probe. Applied Physics Letters, 2003, 83, 147-149.	3.3	39
38	Wetâ€Route Synthesis and Characterization of Yb:CaF ₂ Optical Ceramics. Journal of the American Ceramic Society, 2016, 99, 1992-2000.	3.8	39
39	Broadband telecommunication wavelength emission in Yb^3+-Er^3+-Tm^3+ co-doped nano-glassceramics. Optics Express, 2007, 15, 9535.	3.4	38
40	AC thermal imaging of a microwire with a fluorescent nanocrystal: Influence of the near field on the thermal contrast. Journal of Applied Physics, 2009, 106, 074301.	2.5	38
41	Microscopic Evidence of Upconversion-Induced Near-Infrared Light Harvest in Hybrid Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 3537-3543.	5.1	35
42	EPR and optical studies of erbium-doped \hat{l}^2 -PbF2 single-crystals and nanocrystals in transparent glassâ \in ceramics. Physical Chemistry Chemical Physics, 2007, 9, 5591.	2.8	34
43	Nucleation and anionic environment of Er3+ in a germanate glass. Journal of Non-Crystalline Solids, 2003, 318, 56-62.	3.1	30
44	Tuning Temperature and Size of Hot Spots and Hot‧pot Arrays. Small, 2011, 7, 259-264.	10.0	30
45	EPR and optical study of Yb3+-doped β-PbF2single crystals and nanocrystals of glass-ceramics. Journal of Physics Condensed Matter, 2006, 18, 7905-7922.	1.8	29
46	Oxide glass used as inorganic template for fluorescent fluoride nanoparticles synthesis. Optical Materials, 2006, 28, 1401-1404.	3.6	29
47	Effect of rare earth impurities on fluorescent cooling in ZBLAN glass. Journal of Non-Crystalline Solids, 2001, 284, 249-254.	3.1	28
48	Influence of Ce3+ doping on the structure and luminescence of Er3+-doped transparent glass-ceramics. Optical Materials, 2006, 28, 638-642.	3.6	28
49	ac thermal imaging of nanoheaters using a scanning fluorescent probe. Applied Physics Letters, 2008, 92, 023101.	3.3	28
50	Structural characterisation of transparent oxyfluoride glass-ceramics. Journal of Materials Science, 2000, 35, 4849-4856.	3.7	27
51	Red-shift in Er:ZBLALiP whispering gallery mode laser. Optics Communications, 2004, 229, 311-315.	2.1	27
52	Spectra and energy levels of Yb3+ ions in CaF2 transparent ceramics. Journal of Alloys and Compounds, 2014, 584, 261-268.	5. 5	27
53	Cathodo- and photoluminescence in Yb^3+-Er^3+ co-doped PbF_2 nanoparticles. Optics Express, 2010, 18, 8836.	3.4	26
54	Point temperature sensor based on green decay in an Er:ZBLALiP microsphere. Journal of Luminescence, 2009, 129, 1994-1996.	3.1	25

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55	Tunable Visible Emission of Luminescent Hybrid Nanoparticles Incorporating Two Complementary Luminophores: ZnO Nanocrystals and [Mo ₆ Br ₁₄] ^{2â°'} Nanosized Cluster Units. Particle and Particle Systems Characterization, 2013, 30, 90-95.	2.3	25
56	Experimental and theoretical study of second-order Raman scattering in BaLiF3. Solid State Communications, 1994, 89, 369-371.	1.9	24
57	Multifunctional hybrid silica nanoparticles based on [Mo6Br14]2 \hat{a} ° phosphorescent nanosized clusters, magnetic \hat{l} 3-Fe2O3 and plasmonic gold nanoparticles. Journal of Colloid and Interface Science, 2014, 424, 132-140.	9.4	24
58	Fabrication and characterization of fluorescent rare-earth-doped glass-particle-based tips for near-field optical imaging applications. Applied Optics, 2004, 43, 3829.	2.1	23
59	Note: A scanning thermal probe microscope that operates in liquids. Review of Scientific Instruments, 2011, 82, 036106.	1.3	23
60	Synthesis of Fluoride Nanoparticles in Non-Aqueous Nanoreactors. Luminescence Study of Eu3+:CaF2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 1538-1543.	1.2	22
61	Optical investigation of Eu3+:PbF2 ceramics and transparent glass–ceramics. Optical Materials, 2011, 33, 791-798.	3.6	22
62	Raman scattering investigations of KY3F10. Journal of Raman Spectroscopy, 1991, 22, 393-396.	2.5	21
63	Electron-phonon coupling inNi2+â^dopedperovskites:KMgF3andBaLiF3. Physical Review B, 2003, 67, .	3.2	21
64	Upconversion channels in Er3+:ZBLALiP fluoride glass microspheres. EPJ Applied Physics, 2007, 40, 181-188.	0.7	19
65	Thermal and optical investigation of EuF3-doped lead fluorogermanate glasses. Journal of Non-Crystalline Solids, 2010, 356, 56-64.	3.1	19
66	Nanoscale thermometry with fluorescent yttrium-based Er/Yb-doped fluoride nanocrystals. Sensors and Actuators A: Physical, 2016, 250, 71-77.	4.1	19
67	Crystal field analysis of Er3+-doped glasses: germanate, silicate and ZBLAN. Journal of Alloys and Compounds, 2000, 300-301, 407-413.	5 . 5	18
68	Ceramic and glass-ceramic lasers. Annales De Chimie: Science Des Materiaux, 2003, 28, 21-33.	0.4	18
69	Spectroscopic studies of Ni2+ or Cr3+-doped BaLiF3. Optical Materials, 1994, 4, 115-120.	3.6	17
70	Devitrification of fluorozirconate glasses: from nucleation to spinodal decomposition. Journal of Non-Crystalline Solids, 2001, 284, 85-90.	3.1	16
71	Exploring the Magnetic and Electric Side of Light through Plasmonic Nanocavities. Nano Letters, 2018, 18, 5098-5103.	9.1	16
72	Optical properties of Er3+ in fullerenes and in β-PbF2 single-crystals. Optical Materials, 2009, 32, 251-256.	3.6	15

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73	High yield syntheses of reactive fluoride K1â^'x(Y,Ln)xF1+2x nanoparticles. Optical Materials, 2009, 31, 1177-1183.	3.6	15
74	Miniaturized Optical Microwave Source Using a Dual-Wavelength Whispering Gallery Mode Laser. IEEE Photonics Technology Letters, 2010, 22, 559-561.	2.5	15
75	High quality-factor optical resonators. Physica Scripta, 2014, T162, 014032.	2.5	15
76	Thermal conductivity measurements of Yb:CaF2 transparent ceramics using the 3ω method. Journal of Applied Physics, 2017, 121, .	2.5	15
77	Luminescence properties of PbF2:Yb–Er nanoparticles synthesized by two different original routes. Journal of Alloys and Compounds, 2008, 451, 563-566.	5.5	14
78	Mid-infrared emission in Yb3+–Er3+–Tm3+ co-doped oxyfluoride glass-ceramics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 66-68.	3.5	13
79	Ultralow blocking temperature and breakdown of the giant spin model in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:msup></mml:mrow></mml:math>	< 312 ml:mn>	3 ³ √/mml:m
80	Coupling of high-quality-factor optical resonators. Physica Scripta, 2013, T157, 014024.	2.5	13
81	Fluorescence enhancement near single TiO2 nanodisks. Applied Physics Letters, 2017, 111, .	3.3	13
82	UV-assisted crystallisation of tellurite and germanate-based glasses. Optical Materials, 2006, 28, 1276-1279.	3.6	11
83	Submicron thermal imaging of a nucleate boiling process using fluorescence microscopy. Energy, 2016, 109, 436-445.	8.8	11
84	Strong near-field optical localization on an array of gold nanodisks. Journal of Applied Physics, 2011, 110, 044308.	2.5	10
85	Thermal and Structural Characterization of Transparent Rare-Earth Doped Lead Fluoride Glass-Ceramics. New Journal of Glass and Ceramics, 2012, 02, 65-74.	1.4	10
86	The lattice dynamics of the fluoroperovskite KMgF3. Journal of Physics Condensed Matter, 1993, 5, 7615-7622.	1.8	9
87	Influence of the anionic environment of Er 3+ ions in a germanate glass. Journal of Non-Crystalline Solids, 2003, 326-327, 287-291.	3.1	9
88	Scanning thermal imaging of an electrically excited aluminum microstripe. Journal of Applied Physics, 2007, 102, 024305.	2.5	9
89	Near-field scattered by a single nanoslit in a metal film. Applied Optics, 2007, 46, 8573.	2.1	9
90	Transient submicron temperature imaging based on the fluorescence emission in an Er/Yb co-doped glass–ceramic. Sensors and Actuators A: Physical, 2015, 230, 102-110.	4.1	9

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91	Optical feedback on whispering gallery mode laser: wavelength shifts in erbium-doped microspherical laser. , 2004, 5451, 199.		8
92	Orange avalanche upconversion for high-resolution laser spectroscopy. EPJ Applied Physics, 2007, 37, 161-168.	0.7	8
93	Rare Earth-Activated Silica-Based Nanocomposites. Journal of Nanomaterials, 2007, 2007, 1-6.	2.7	8
94	Local order around rare earth ions during the devitrification of oxyfluoride glasses. Journal of Chemical Physics, 2008, 128, 244516.	3.0	8
95	High-gain wavelength-selective amplification and cavity ring down spectroscopy in a fluoride glass erbium-doped microsphere. Optics Letters, 2012, 37, 4735.	3.3	8
96	Mapping plasmon-enhanced upconversion fluorescence of Er/Yb-doped nanocrystals near gold nanodisks. Nanoscale, 2019, 11, 10365-10371.	5.6	8
97	Transferred hyperfine interaction and zero field splitting of the Gd3+ ion in KY3F10. Solid State Communications, 1995, 95, 167-171.	1.9	7
98	Field distribution on metallic and dielectric nanoparticles observed with a fluorescent near-field optical probe. Journal of Applied Physics, 2005, 97, 104322.	2.5	7
99	Imaging Joule Heating in an 80Ânm Wide Titanium Nanowire by Thermally Modulated Fluorescence. International Journal of Thermophysics, 2013, 34, 1405-1412.	2.1	7
100	Extremely straightforward room temperature co-precipitation method to synthesize cubic KYF4:Yb/Er up-conversion nanoparticles in deionized water-ethanol solution. Optical Materials, 2019, 98, 109458.	3.6	7
101	Between glass and crystal: Glass–ceramics, a new way for optical materials. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 745-753.	0.6	6
102	Molecular dynamics simulation study of erbium induced devitrification in vitreous PbF2. Journal of Chemical Physics, 2007, 127, 094509.	3.0	6
103	Imaging current paths in complex conductors by scanning fluorescence microscopy. Applied Physics Letters, 2012, 101, 123113.	3.3	6
104	Dynamical Analysis of Modal Coupling in Rare-Earth Whispering-Gallery-Mode Microlasers. Physical Review Applied, 2019, 11, .	3.8	5
105	Upconversion fluorescence imaging of erbium-doped fluoride glass particles by apertureless SNOM. Journal of Microscopy, 2003, 210, 198-202.	1.8	4
106	Ni2+:BaLiF3: A promising R. T. tunable solid state laser material. Radiation Effects and Defects in Solids, 1995, 136, 65-68.	1.2	3
107	Thermal imaging of nickel wires with a fluorescent nanoprobe. Journal of Physics: Conference Series, 2007, 92, 012089.	0.4	3
108	Last advances in Yb3+doped CaF 2 ceramics synthesis. , 2011, , .		3

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109	Theoretical and experimental analysis of rare earth whispering gallery mode laser relative intensity noise. Optics Express, 2017, 25, 32732.	3.4	3
110	Structural, thermal and optical investigations of PbF2:Eu3+ particles prepared by co-precipitation method. Optical Materials, 2018, 83, 321-327.	3.6	3
111	Highly colloidal luminescent Er3+, Yb3+-codoped KY3F10 nanoparticles for theranostic applications. Materials Today Communications, 2021, 28, 102553.	1.9	3
112	<title>Er:ZBLALiP whispering-gallery mode lasers at 1550 nm investigation of red-shift due to pump intensity</title> ., 2002, , .		2
113	Synthesis and characterization of magnetic-fluorescent composite colloidal nanostructures. , 2008, ,		2
114	Near-Field Imaging of Surface Plasmon Polaritons Excited by Chains of Gold Nanodiscs. Plasmonics, 2013, 8, 1515-1521.	3.4	2
115	Magnetic and Fluorescent Hybrid Silica Nanoparticles Based on the Co-Encapsulation of Î ³ -Fe ₂ O ₃ Nanocristals and [Mo ₆ Br ₁₄] ²⁻ Luminescent Nanosized Clusters by Water-in-Oil Microemulsion. Key Engineering Materials, 2014, 617, 174-178.	0.4	2
116	The incorporation site of Er in nanosized CaF2. Journal of Physics Condensed Matter, 2016, 28, 485301.	1.8	2
117	Luminescence enhancement effects on nanostructured perovskite thin films for Er/Yb-doped solar cells. Nanoscale Advances, 2022, 4, 1786-1792.	4.6	2
118	Spatially Resolved Temperature Distribution in a Rare-Earth-Doped Transparent Glass-Ceramic. Sensors, 2022, 22, 1970.	3.8	2
119	Micrometer-sized point temperature sensor in Er:ZBLALiP. , 2002, , .		1
120	Diode-pumped laser demonstration with Yb:CaF2 nanopowder-based ceramics. , 2014, , .		1
121	Near-field observation of surface plasmon polaritons launched by V-shaped nanorods on a gold surface. Applied Optics, 2015, 54, 9326.	2.1	1
122	Optical Properties of Fluoride Transparent Ceramics. , 2016, , 65-87.		1
123	Optical Sensors Using Ultrahigh-Quality Micro-Resonators. , 2020, , .		1
124	Scanning Thermal Microscopy with Fluorescent Nanoprobes. Topics in Applied Physics, 2009, , 505-535.	0.8	1
125	Études de l'effet laser dans un micro résonateur à modes de Galerie en verre ZBLALiP dopé Erbium. European Physical Journal Special Topics, 2002, 12, 269-270.	0.2	1
126	Red-shift due to pump intensity in Er:ZBLALiP whispering-gallery mode lasers. , 2003, , .		0

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127	Near-field optical measurements using rare-earth-doped glass-ceramic particles. , 2004, , .		0
128	Near-field optical imaging of metallic nanoparticles, holes and slits. , 2005, , .		0
129	Dual wavelength Er3+: ZBLALiP whispering gallery mode laser. , 2009, , .		0
130	Thermal imaging of hot spots in nanostructured microstripes. Journal of Physics: Conference Series, 2010, 214, 012098.	0.4	0
131	Near-field optical characterization of interacting and non-interacting gold nanoparticles embedded in a silica thin film. Optics Communications, 2011, 284, 3118-3123.	2.1	O
132	Luminescence: Tunable Visible Emission of Luminescent Hybrid Nanoparticles Incorporating Two Complementary Luminophores: ZnO Nanocrystals and [Mo ₆ Br ₁₄] ^{2â^²} Nanosized Cluster Units (Part. Part. Syst. Charact.) Tj ETQ)့q ၀ီ၀ီ 0 rgl	BT POverlock 1
133	High gain selective amplification in whispering gallery mode resonators: analysis by cavity ring down method., 2013,,.		0
134	Ultra-long photon lifetime in a slow-light microcavity. , 2016, , .		0
135	Slow-light microcavities. , 2017, , .		0
136	Nanoscale thermal imaging of active devices by fluorescent SThM., 2017,,.		0
137	Microscopic Characterizations of Upconversion-Induced Near-Infrared Light Harvest in Hybrid Perovskite Solar Cells. Microscopy and Microanalysis, 2019, 25, 2134-2135.	0.4	0
138	Direct imaging of fluorescence enhancement in the gap between two gold nanodisks. Applied Physics Letters, 2021, 118, 161105.	3.3	0
139	Simultaneous Oscillation of Wavelength-Tunable Singlemode Lasers Using Er :ZBLALiP Whispering Gallery Mode Resonator. , 2009, , .		O
140	Fluoride Transparent Ceramics. , 2012, , .		0
141	Analysis of Thermal Properties for Novel Nanopowder-Based Yb:CaF2 Optical Ceramics., 2017,,.		O