

Jia Zhang

List of Publications by Year in descending order

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83
papers

1,926
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218677

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39
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all docs

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Optical temperature-sensing properties based on upconversion luminescence of La _{9.31} Si _{6.24} O ₂₆ :Er ³⁺ ,Yb ³⁺ with different strategies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120402.	3.9	8
2	Quantum cutting in Tm ³⁺ -activated Ca ₉ Gd(PO ₄) ₇ phosphors and effect of Tm ³⁺ concentration on emission spectra. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161808.	5.5	3
3	The direct identification of quantum cutting in Tm ³⁺ ions and energy transfer in the Tm ³⁺ /Yb ³⁺ system based on a Ba ₂ Gd ₂ Si ₄ O ₁₃ oxide host. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 719-728.	6.0	4
4	Yb ³⁺ -concentration-dependent upconversion luminescence of Ho ³⁺ -Yb ³⁺ codoped La _{9.31} (Si _{1.04} O ₄) ₆ O ₂ for optical thermometer. <i>Journal of Luminescence</i> , 2022, 250, 119073.	3.1	8
5	Emission-tunable Sr _{8.5} -mMg _{2+m} (PO ₄) ₇ :Eu ²⁺ /Mn ²⁺ phosphors for multifunctional applications. <i>Journal of Luminescence</i> , 2021, 230, 117750.	3.1	7
6	Yb ³⁺ /Tm ³⁺ and Yb ³⁺ /Ho ³⁺ doped NaY ₉ (SiO ₄) ₆ O ₂ phosphors: Upconversion luminescence processes, temperature-dependent emission spectra and optical temperature-sensing properties. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158473.	5.5	30
7	Intense emissions in Ce ³⁺ /Eu ²⁺ doped Ca _{5.93} -mSr _m Ba(PO ₄) ₄ O phosphors via host adjustment and energy transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 251, 119431.	3.9	2
8	Photoluminescence properties of Er ³⁺ and Eu ³⁺ ions based on oxide host for optical temperature sensing with high sensitivity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119602.	3.9	2
9	Ratiometric fluorescence temperature-sensing properties of Eu ³⁺ and Tm ³⁺ in Gd _{4.67} Si ₃ O ₁₃ oxide host. <i>Optics and Laser Technology</i> , 2021, 138, 106854.	4.6	6
10	NaGd ₉ (SiO ₄) ₆ O ₂ :Yb ³⁺ -Er ³⁺ /Tm ³⁺ : Optical thermometric materials of high-sensitivity by using different strategies. <i>Journal of Luminescence</i> , 2021, 239, 118388.	3.1	6
11	Various strategies for optical thermometry with high sensitivities based on rare earth ions doped BaY ₂ Si ₃ O ₁₀ phosphors. <i>Materials Research Bulletin</i> , 2020, 122, 110660.	5.2	21
12	Investigation on luminescence of bifunctional Y _{4.67} (SiO ₄) ₃ O:Ce ³⁺ /Tb ³⁺ /Eu ³⁺ phosphors. <i>Journal of Luminescence</i> , 2020, 218, 116842.	3.1	12
13	Photoluminescence properties of Ca ₉ La(PO ₄) ₅ SiO ₄ F ₂ :Ce ³⁺ /Tb ³⁺ /Mn ²⁺ phosphors for applications in white light-emitting diodes and optical thermometers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117886.	3.9	15
14	Highly sensitive optical temperature sensing based on upconversion luminescence in Gd _{9.33} (SiO ₄) ₆ O ₂ :Yb ³⁺ Er ³⁺ /Ho ³⁺ phosphors. <i>Dalton Transactions</i> , 2020, 49, 10949-10957.	3.1	25
15	KBaYSi ₂ O ₇ :Yb ³⁺ -Er ³⁺ /Ho ³⁺ phosphors: Optical temperature sensing materials of high sensitivity. <i>Journal of Luminescence</i> , 2020, 227, 117562.	3.1	19
16	The effect of dopant concentration and pump power on sensitivities of optical thermometry in LiLa ₉ Si ₆ O ₂₆ :Yb ³⁺ -Er ³⁺ /Ho ³⁺ phosphors based on upconversion luminescence. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156397.	5.5	22
17	Temperature-sensing luminescent materials La _{9.67} Si ₆ O _{26.5} :Yb ³⁺ Er ³⁺ /Ho ³⁺ based on pump-power-dependent upconversion luminescence. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4892-4901.	6.0	42
18	Photoluminescence properties, Judd-Ofelt analysis, and optical temperature sensing of Eu ³⁺ -doped Ca ₃ La ₇ (SiO ₄) ₅ (PO ₄) ₂ luminescent materials. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 230, 118057.	3.9	20

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19	Investigation of dopant concentration and excitation power on sensitivities of Y ₄ Si ₃ O ₁₃ :Yb ³⁺ ,Er ³⁺ upconversion phosphors for optical thermometer. Optics and Laser Technology, 2019, 120, 105747.	4.6	15
20	Upconversion luminescence of Sr ₈ MgY(PO ₄) ₇ :Yb ³⁺ +Er ³⁺ /Ho ³⁺ phosphors for optical thermometry. Journal of Materials Science: Materials in Electronics, 2019, 30, 17780-17786.	2.2	6
21	Investigation on photoluminescence properties of multifunctional Ca ₉ La(PO ₄) ₅ SiO ₄ F ₂ :Eu,Mn phosphors. Journal of Luminescence, 2019, 216, 116723.	3.1	7
22	Tunable luminescence of LiY ₉ (SiO ₄) ₆ O ₂ :Ce ³⁺ -Tb ³⁺ -Sm ³⁺ phosphors for LED and temperature-sensing applications. Journal of Luminescence, 2019, 214, 116581.	3.1	26
23	Upconversion luminescence of Ca ₂ Gd ₈ (SiO ₄) ₆ O ₂ :Yb ³⁺ -Tm ³⁺ -Tb ³⁺ /Eu ³⁺ phosphors for optical temperature sensing. Optics and Laser Technology, 2019, 115, 487-492.	4.6	32
24	A long-persistent phosphor Sr ₃ MgSi ₂ O ₈ -1.5xNx:Eu ²⁺ ,Dy ³⁺ ,Mn ²⁺ based on white LEDs applications. Journal of Luminescence, 2019, 211, 69-75.	3.1	12
25	Y _{4.67} Si ₃ O ₁₃ based phosphors: Structure, morphology and upconversion luminescence for optical thermometry. Journal of the American Ceramic Society, 2019, 102, 5471-5483.	3.8	22
26	Structure, Morphology and Upconversion Luminescence of Rare Earth Ions Doped LiY ₉ (SiO ₄) ₆ O ₂ for Temperature Sensing. Industrial & Engineering Chemistry Research, 2019, 58, 3490-3498.	3.7	21
27	Optical temperature sensing using upconversion luminescence in rare-earth ions doped Ca ₂ Gd ₈ (SiO ₄) ₆ O ₂ phosphors. Journal of Alloys and Compounds, 2019, 771, 838-846.	5.5	47
28	Electronic structure, upconversion luminescence and optical temperature sensing behavior of Yb ³⁺ -Er ³⁺ /Ho ³⁺ doped NaLaMgWO ₆ . Journal of Alloys and Compounds, 2019, 783, 84-94.	5.5	54
29	Luminescence of Sr ₂ MgSi ₂ O ₇ -1.5xNx:Eu ²⁺ ,Dy ³⁺ phosphors with long-afterglow properties for white LEDs. Optical Materials, 2019, 88, 333-338.	3.6	18
30	Luminescence of long-persistent Ca ₂ MgSi ₂ O ₇ ~1.5xNx:Eu ²⁺ ,Dy ³⁺ phosphors for LEDs applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 4056-4063.	2.2	3
31	Luminescence properties of KBaYSi ₂ O ₇ :Ce/Eu-Tb phosphors for multifunctional applications. Applied Optics, 2019, 58, 4740.	1.8	4
32	Optical thermometry based on upconversion luminescence of Yb ³⁺ -Er ³⁺ and Yb ³⁺ -Ho ³⁺ doped Y ₆ WO ₁₂ phosphors. Applied Optics, 2019, 58, 7451.	1.8	7
33	Upconversion Luminescence and Discussion of Sensitivity Improvement for Optical Temperature Sensing Application. Inorganic Chemistry, 2018, 57, 5038-5047.	4.0	138
34	Effect of dopant contents on upconversion luminescence and temperature sensing behavior in Ca ₃ La ₆ Si ₆ O ₂₄ :Yb ³⁺ -Er ³⁺ /Ho ³⁺ phosphors. Journal of Luminescence, 2018, 201, 217-223.	3.1	40
35	Investigations on upconversion luminescence of K ₃ Y(PO ₄) ₂ :Yb ³⁺ -Er ³⁺ /Ho ³⁺ /Tm ³⁺ phosphors for optical temperature sensing. Journal of Alloys and Compounds, 2018, 748, 438-445.	5.5	114
36	Upconversion luminescence of Ba ₉ Y ₂ Si ₆ O ₂₄ :Yb ³⁺ -Ln ³⁺ (Ln= Er, Ho, and Tm) phosphors for temperature sensing. Materials Chemistry and Physics, 2018, 206, 40-47.	4.0	76

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37	Luminescence and energy transfer in warm white-light-emitting K ₃ Y(PO ₄) ₂ :Tb,Eu phosphor for LEDs applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 3120-3126.	2.2	5
38	White-emission in single-phase Ba ₂ Gd ₂ Si ₄ O ₁₃ :Ce ³⁺ ,Eu ²⁺ ,Sm ³⁺ phosphor for white-LEDs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 194-201.	3.9	21
39	Investigation on luminescence properties of BaY ₂ Si ₃ O ₁₀ :Er ³⁺ /Ho ³⁺ Yb ³⁺ for optical temperature sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20033-20039.	2.2	10
40	Ce ³⁺ /Mn ²⁺ -activated Ca ₇ (PO ₄) ₂ (SiO ₄) ₂ : efficient luminescent materials for multifunctional applications. <i>Optics Express</i> , 2018, 26, A904.	3.4	6
41	Temperature sensing behavior in Yb ³⁺ Tb ³⁺ and Eu ³⁺ doped Ca ₂ Gd ₈ (SiO ₄) ₆ O ₂ phosphors based on upconversion and downshifting luminescence. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12061-12066.	2.2	10
42	Investigation on Upconversion Luminescence and Optical Temperature Sensing Behavior for Ba ₂ Gd ₂ Si ₄ O ₁₃ :Yb ³⁺ -Er ³⁺ /Ho ³⁺ Tm ³⁺ Phosphors. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7507-7515.	3.7	37
43	Temperature sensing based on upconversion luminescence of Er ³⁺ /Tm ³⁺ -Yb ³⁺ doped Ca ₄ Y ₆ Si ₄ O ₂₄ phosphors. <i>Optical Materials</i> , 2018, 81, 122-128.	3.6	28
44	Investigation on optical temperature sensing behaviour for Y ₄ Si ₃ O ₁₃ :Tm ³⁺ ,Yb ³⁺ phosphors based on upconversion luminescence. <i>Optical Materials Express</i> , 2018, 8, 1841.	3.0	22
45	Luminescence and energy transfer properties of color-tunable Sr ₄ La(PO ₄) ₃ O: Ce ³⁺ , Tb ³⁺ , Mn ²⁺ phosphors for WLEDs. <i>Optical Materials Express</i> , 2018, 8, 1850.	3.0	6
46	Upconversion luminescence of Ba ₃ La(PO ₄) ₃ :Yb ³⁺ -Er ³⁺ /Tm ³⁺ phosphors for optimal temperature sensing. <i>Applied Optics</i> , 2018, 57, 1345.	1.8	41
47	Investigation on luminescence of emission-tunable Ca ₅ Y ₃ Na ₂ (PO ₄) ₅ SiO ₄ F ₂ :Eu ²⁺ ,Tb ³⁺ ,Mn ²⁺ phosphors for white LEDs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 201, 67-72.	3.9	10
48	Luminescence of emission-tunable NaSr _{1-y} BayCazPO ₄ :Eu ²⁺ ,Mn ²⁺ phosphors for white LEDs. <i>Journal of Luminescence</i> , 2017, 190, 200-206.	3.1	5
49	Investigation on photoluminescence of Ca ₂ Gd ₈ (SiO ₄) ₆ O ₂ :Ce ³⁺ ,Tb ³⁺ ,Mn ²⁺ phosphors. <i>Materials Research Bulletin</i> , 2017, 95, 570-577.	5.2	9
50	Emission-tunable Sr ₁₋₂ Ba ₂ Mg ₂ (PO ₄) ₂ :xCe ³⁺ ,yEu ²⁺ ,xNa ⁺ phosphors for optical temperature sensing. <i>Journal of Alloys and Compounds</i> , 2017, 725, 1055-1062.	5.5	26
51	Up-conversion luminescence of novel Yb ³⁺ -Ho ³⁺ /Er ³⁺ doped Sr ₅ (PO ₄) ₃ Cl phosphors for optical temperature sensing. <i>Optical Materials Express</i> , 2017, 7, 2084.	3.0	28
52	Investigations on the luminescence of Ba ₂ Mg(PO ₄) ₂ :Eu ²⁺ ,Mn ²⁺ phosphors for LEDs. <i>Optical Materials Express</i> , 2016, 6, 3470.	3.0	15
53	Investigations on luminescence of CaLa ₄ Si ₃ O ₁₃ -based phosphors for multifunctional applications. <i>Journal of Alloys and Compounds</i> , 2016, 682, 618-626.	5.5	15
54	Investigations on photoluminescence and cathodoluminescence properties of Ca ₃ La ₆ (SiO ₄) ₆ :Tb ³⁺ , Mn ²⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 165, 85-89.	3.9	12

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55	Morphologies and up-conversion luminescence of $\text{Cd}_4\text{O}_3\text{F}_6:\text{RE}^{3+}$ (RE=Yb, Er, Ho and Tm) phosphors by Hydrothermal Synthesis. <i>Journal of Luminescence</i> , 2016, 174, 1-5.	3.1	26
56	Investigations on luminescence of $\text{Ca}_8\text{MgGd}(\text{PO}_4)_7:\text{Eu}^{2+}$, Mn^{2+} , Yb^{3+} , Er^{3+} , Ho^{3+} , Tm^{3+} phosphors. <i>Materials Research Bulletin</i> , 2016, 74, 34-40.	5.2	20
57	Investigation on luminescence properties of emission-tunable $\text{Ba}_9\text{Y}_2\text{Si}_6\text{O}_{24}:\text{Tb}^{3+}$, Mn^{2+} phosphors. <i>Ceramics International</i> , 2016, 42, 3437-3441.	4.8	8
58	Investigation on the upconversion luminescence of $\text{Sr}_3\text{AlO}_4\text{F}:\text{Yb}^{3+}$, Er^{3+} , Ho^{3+} phosphors. <i>Solid State Sciences</i> , 2015, 50, 18-22.	3.2	6
59	Warm white-light generation in $\text{Ca}_9\text{MgNa}(\text{PO}_4)_7:\text{Sr}^{2+}$, Mn^{2+} , Ln (Ln= Eu^{2+} , Yb^{3+} , Er^{3+} , Ho^{3+} , and Tm^{3+}) under near-ultraviolet and near-infrared excitation. <i>Ceramics International</i> , 2015, 41, 9910-9915.	4.8	13
60	Multicolor-emitting $\text{Ca}_{3-x}\text{Sr}_x(\text{PO}_4)_2:\text{xEu}^{2+}$ ($0 \leq x \leq 0.075$, $0 \leq y \leq 0.2$) phosphors for light-emitting diodes. <i>Materials and Design</i> , 2015, 87, 124-129.	7.0	16
61	Generation of tunable-emission in $\text{Li}_4\text{Ca}_{1-x}\text{Sr}_{0.96+x}(\text{SiO}_4)_2:0.04\text{Eu}^{2+}$ phosphors for LEDs application. <i>Optical Materials Express</i> , 2015, 5, 1704.	3.0	8
62	Investigations on the luminescence of emission-tunable $\text{Ca}_{10}\text{K}(\text{PO}_4)_7:\text{Eu}^{2+}$, Sr^{2+} , Mg^{2+} phosphors for white LEDs. <i>RSC Advances</i> , 2015, 5, 2689-2693.	3.6	24
63	Investigations on morphology, photoluminescence and cathodoluminescence of SrWO_4 and $\text{SrWO}_4:\text{Tb}^{3+}$. <i>Optical Materials</i> , 2014, 38, 126-130.	3.6	14
64	Hydrothermal synthesis of $\text{Y}(\text{V}, \text{P})\text{O}_4:\text{Ln}^{3+}$ (Ln=Eu, Yb, and Er) with shape- and size-controlled morphologies. <i>Journal of Alloys and Compounds</i> , 2014, 610, 409-415.	5.5	9
65	Luminescent properties of novel $\text{K}_3\text{R}(\text{PO}_4)_2:\text{Tb}^{3+}$ (R=Y and Gd) phosphors for displays and lightings. <i>Journal of Luminescence</i> , 2014, 150, 46-49.	3.1	29
66	Investigation on visible quantum cutting of Tb^{3+} in oxide hosts. <i>Journal of Applied Physics</i> , 2014, 115, 093108.	2.5	8
67	Luminescence properties of $\text{Ca}_{14}\text{Mg}_2(\text{SiO}_4)_8:\text{Eu}^{2+}$ from various Eu^{2+} sites for white-light-emitting diodes. <i>Materials Research Bulletin</i> , 2014, 60, 467-473.	5.2	38
68	Investigation of photoluminescence in $\text{Ca}_9\text{Lu}(\text{PO}_4)_7:\text{Tb}^{3+}$, Mn^{2+} phosphors. <i>Journal of Luminescence</i> , 2014, 154, 193-197.	3.1	7
69	Structure and luminescence properties of the novel multifunctional $\text{K}_2\text{Y}(\text{WO}_4)(\text{PO}_4):\text{Ln}^{3+}$ (Ln = Tb, Eu.) <i>Tj ETQq1 1 0.784314 rgBT /Ov</i>	3.6	31
70	Up-conversion luminescence and near-infrared quantum cutting in $\text{Y}_6\text{O}_5\text{F}_8:\text{RE}^{3+}$ (RE = Yb, Er, and Ho) with controllable morphologies by hydrothermal synthesis. <i>Dalton Transactions</i> , 2013, 42, 3542.	3.3	42
71	Structure, enhancement and white luminescence of multifunctional $\text{Lu}_6\text{O}_5\text{F}_8:20\%\text{Yb}^{3+}, 1\%\text{Er}^{3+}(\text{Tm}^{3+})$ nanoparticles via further doping with Li^+ under different excitation sources. <i>Nanoscale</i> , 2013, 5, 2491.	5.6	54
72	Synthesis and Photoluminescence of a New Chlorogermanate Phosphor $\text{Ca}_8\text{Mg}_4\text{GeO}_4$. <i>Journal of the American Ceramic Society</i> , 2013, 96, 223-227.		

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73	Preparation and drug-delivery properties of hollow YVO_4 : Ln^{3+} and mesoporous YVO_4 : Ln^{3+} @ nSiO_2 @ mSiO_2 ($\text{Ln} = \text{Eu}, \text{Yb}$), <i>Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 582 T</i>	1.1	43
74	WHITE UPCONVERSION LUMINESCENCE FROM ($\text{Yb}^{3+}/\text{Tm}^{3+}/\text{Ho}^{3+}$) TRIDOPED GdF_3 NANORODS AFTER HEAT TREATMENT. <i>Functional Materials Letters</i> , 2012, 05, 1250024.	1.2	7
75	Near-infrared quantum cutting in Ho^{3+} , Yb^{3+} -codoped BaGdF_5 nanoparticles via first-and second-order energy transfers. <i>Nanoscale Research Letters</i> , 2012, 7, 636.	5.7	41
76	Crystal structure and up- and down-conversion properties of Yb^{3+} , Ho^{3+} codoped BaGdF_5 solid-solution with different morphologies. <i>CrystEngComm</i> , 2012, 14, 3131.	2.6	66
77	Vacuum Ultraviolet, Ultraviolet, X-Ray, and Near-Infrared Excited Luminescence Properties of SrR_2O_4 : RE^{3+} ($\text{R} = \text{Y}$ and Gd); <i>Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 582 T</i>	3.8	34
78	Bright White Up-Conversion Emission from $\text{Ho}^{3+}/\text{Yb}^{3+}/\text{Tm}^{3+}$ Tri-Doped Y_2SiO_5 Phosphors. <i>Journal of the Electrochemical Society</i> , 2011, 158, J225.	2.9	20
79	Luminescence properties of $\text{Ca}_{10}\text{K}(\text{PO}_4)_7$: RE^{3+} ($\text{RE} = \text{Ce}, \text{Tb}, \text{Dy}, \text{Tm}$ and Sm) under vacuum ultraviolet excitation. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4649-4652.	5.5	48
80	Luminescence properties of Ce^{3+} and/or Mn^{2+} activated $\text{Ca}_{10}\text{K}(\text{PO}_4)_7$ under ultraviolet and vacuum ultraviolet excitation. <i>Materials Chemistry and Physics</i> , 2011, 130, 1265-1269.	4.0	12
81	A potential Eu^{3+} -activated $\text{Ca}_{10}\text{K}(\text{PO}_4)_7$ red phosphor for white light-emitting diodes. <i>Materials Research Bulletin</i> , 2011, 46, 2554-2559.	5.2	15
82	Vacuum ultraviolet and near-infrared excited luminescence properties of $\text{Ca}_3(\text{PO}_4)_2$: RE^{3+} , Na^+ ($\text{RE} = \text{Tb}$), <i>Tj ETQq0 0 0 rgBT / Overlock 10 Tf 46</i>	2.9	46
83	Photoluminescence of Tb^{3+} and Mn^{2+} activated $\text{Ca}_8\text{MgGd}(\text{PO}_4)_7$ under vacuum ultraviolet excitation. <i>Optical Materials</i> , 2011, 33, 1325-1330.	3.6	19