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Eğitim Bilgileri

Post Doktora, Texas A&M University, Science And Petroleum Engineering, Physics/Atomic Molecular And Optical Physics, Amerika Birleşik Devletleri 2016 - 2016
Doktora, Texas A&M University, Science/Department Of Physics And Astronomy, Atomic Molecular And Optical Physics, Amerika Birleşik Devletleri 2011 - 2015
Yüksek Lisans-Tezsiz, Çanakkale Onsekiz Mart Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Eğitimi, Türkiye 2002 - 2003
Lisans, Karadeniz Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1998 - 2002

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Nonadiabatic molecular alignment measurements via photoelectron ionization yields and white-light generation, Texas A&M University, Department Of Physics And Astronomy,, Applied Physics,, 2015

Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Moleküler Özellikler ve Fotonla Etkileşmeler, Temel Bilimler

Akademik Unvanlar / Görevler

Doç. Dr., Çanakkale Onsekiz Mart Üniversitesi, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, Elektrik ve Enerji, 2022 - Devam Ediyor
Dr. Öğr. Üyesi, Çanakkale Onsekiz Mart Üniversitesi, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, Elektrik Ve Enerji, 2018 - 2022
Yrd. Doç. Dr., Çanakkale Onsekiz Mart Üniversitesi, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, Elektrik Ve Enerji, 2017 - 2018
Araştırma Görevlisi Dr., Texas A&M University, Science And Petroleum Engineering, Physics, 2016 - 2016
Araştırma Görevlisi, Texas A&M University, Department Of Physics And Astronomy, Physics, 2011 - 2015

Akademik İdari Deneyim

Bölüm Başkanı, Çanakkale Onsekiz Mart Üniversitesi, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, Elektrik Ve Enerji, 2022 - Devam Ediyor

Verdiği Dersler

Yüksek Lisans
Optoelektronik ve Fotonik: İlkeler ve Uygulamalar, Yüksek Lisans, 2022 - 2023
Optik Spektroskopi: Yöntemler ve FV Uygulamaları, Yüksek Lisans, 2020 - 2021
Ön Lisans
Güç Elektroniği II, Ön Lisans, 2019 - 2020
Özel Tesisat, Ön Lisans, 2019 - 2020
Güç Elektroniği I, Ön Lisans, 2020 - 2021
Temel Elektronik, Ön Lisans, 2020 - 2021
Fizik, Ön Lisans, 2020 - 2021
Ev Cihazları, Ön Lisans, 2019 - 2020
Sözleşme, Keşif ve Planlama, Ön Lisans, 2019 - 2020
Ofis Yazılımları, Ön Lisans, 2020 - 2021

Yönetilen Tezler

Kaya G., Karayolları Tünel Aydınlatma Sistemlerinde Enerji Optimizasyonu Örnek Çalışması: Belkahve Tüneli, Yüksek Lisans, G.ERDİNÇ(Öğrenci), 2023
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Controlling Femtosecond Laser Filaments via Quasi-Hermite Gaussian Beam Modes**
Kaya N., Kaya G., Kolomenskii A., Schuessler H.
ACTA PHYSICA POLONICA A, cilt.141, sa.1, ss.1-7, 2022 (SCI-Expanded)
II. **Design of a New Ultra-sensitive Methane Sensor Based On Optical Approaches that Utilize Laser Diodes**
Keskin A., Kaya N., Kaya G.
Lasers In Engineering, cilt.51, sa.1-5, ss.205-215, 2021 (SCI-Expanded)
III. **Diffractive multifocal lenses by computer-generated holograms**
Kaya N., Kaya G., Strohaber J., Zhou J., Kolomenski A., Schuessler H. A.
OPTICAL ENGINEERING, cilt.60, sa.5, 2021 (SCI-Expanded)
IV. **In-situ measurement of aligning intensity and rotational temperature in field-free molecular alignment via white light generation**
Kaya N., Kaya G., Boran Y., Kolomenski A., Schuessler H. A.
Optik, cilt.242, sa.167360, ss.1-8, 2021 (SCI-Expanded)
V. **Field-free molecular alignment of carbon dioxide molecules measured with above-threshold ionization yields**
KAYA G.
CANADIAN JOURNAL OF PHYSICS, cilt.98, sa.4, ss.390-394, 2020 (SCI-Expanded)
VI. **Controlled formation of femtosecond laser-induced filaments in water**
KAYA G.
EUROPEAN PHYSICAL JOURNAL D, cilt.74, sa.2, 2020 (SCI-Expanded)
VII. **Time slicing in 3D momentum imaging of the hydrogen molecular ion photo-fragmentation**

KAYA N., Kaya G., Pham F. V., Strohaber J., Kolomenskii A. A., Schuessler H. A.
REVIEW OF SCIENTIFIC INSTRUMENTS, cilt.88, sa.2, 2017 (SCI-Expanded)

VIII. **Nonadiabatic molecular alignment of linear molecules probed by strong-field ionization yields of photoelectrons**
Kaya G., Kaya N., Strohaber J., Hart N. A., Kolomenskii A. A., Schuessler H. A.
APPLIED PHYSICS B-LASERS AND OPTICS, cilt.122, sa.12, 2016 (SCI-Expanded)

IX. **Effect of circularly polarized femtosecond laser pulses on alignment dynamics of linear molecules observed by strong-field photoelectron yields**
KAYA N., Kaya G., STROHABER J., Kolomenskii A. A., Schuessler H. A.
EUROPEAN PHYSICAL JOURNAL D, cilt.70, sa.10, 2016 (SCI-Expanded)

X. **Extension of filament propagation in water with Bessel-Gaussian beams**
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XI. **Probing nonadiabatic molecular alignment by spectral modulation**
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XII. **White-light generation control with crossing beams of femtosecond laser pulses**
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XIV. **White-light generation using spatially-structured beams of femtosecond radiation**
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XV. **In situ tomography of femtosecond optical beams with a holographic knife-edge**
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Diğer Dergilerde Yayınlanan Makaleler

I. **Analysis of Various Acoustic Signals from the Piezoelectric Sensor**
Çiftçi B. Ç., Kaya G., Kurt M.
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II. **Control of laser-induced nonadiabatic molecular alignment in dissipative media**
Kaya G.
TURKISH JOURNAL OF PHYSICS, cilt.42, sa.2, ss.146-156, 2018 (ESCI)

III. **Direct Mass Spectroscopy Analysis and Comparison of Middle Eastern and Texas Crude Oils**
Kaya G., Kaya N., Amanı M., Rahman A., Kolomenskı A., Schuessler H.
International Journal of Organic Chemistry, cilt.7, sa.4, ss.312-318, 2017 (Hakemli Dergi)

Kitaplar

I. **Nonadiabatic Molecular Alignment of Linear Molecules Probed by Strong-Field Ionization Yields of Photoelectrons**
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Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

I. **ENERGY OPTIMIZATION OF HIGHWAY TUNNEL LIGHTING SYSTEMS**
Erdinç G., KAYA G.
X. INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS, İstanbul, Türkiye, 23 Temmuz 2022

II. **Holographic Airy Beams as good accelerating light sources for energy**
Kaya G.
TURKISH PHYSICAL SOCIETY 37th INTERNATIONAL PHYSICS CONGRESS, Muğla, Türkiye, 1 - 05 Eylül 2021, ss.94

III. **EFFECT OF COLOR FILTERS ON THE PERFORMANCE OF MONOCRYSTALLINE AND POLYCRYSTALLINE PHOTOVOLTAIC SOLAR PANELS**
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IV. **Creating airy beams as directed and concentrated energy**
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INTERNATIONAL GLOBAL CLIMATE CHANGE CONGRESS, Çanakkale, Türkiye, 3 - 05 Haziran 2021

V. **Creating Airy beams as directed and concentrated energy**
KAYA G., AVCI S., KAYA N., KURT A., KURT M.
INTERNATIONAL GLOBAL CLIMATE CHANGE CONGRESS, Çanakkale, Türkiye, 03 Haziran 2021

VI. **Study of wireless energy transmission by different laser modes**
Kaya N., Kaya G.
INTERNATIONAL GLOBAL CLIMATE CHANGE CONGRESS, Çanakkale, Türkiye, 03 Haziran 2021

VII. **Generation of Programmable Diffractive Multi-Focal Lenses**
KAYA N., KAYA G.
4th International Conference on Physical Chemistry and Functional Materials (PCFM'21), Elazığ, Türkiye, 08 Nisan 2021

VIII. **Design of an Ultra-Sensitive Optical Sensor for AtmosphericLevel Methane Measurement**
KESKİN A., KAYA G., KAYA N.
TURKISH PHYSICALSOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), 4 - 08 Eylül 2019, cilt.1, ss.54-58

IX. **Femtosecond Laser-Induced Filamentation Control inLiquids**
Keskin A., KAYA G., KAYA N.
TURKISH PHYSICALSOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), 4 - 08 Eylül 2019, cilt.1, ss.50-53

X. **Design of an ultra-sensitive optical sensor for atmospheric level methane measurement.**
KESKİN A., KAYA G., KAYA N.
TFD35:Turkish Physical Society 35. International Physics Congress, Bodrum, Türkiye, 4 - 08 Eylül 2019

XI. **Generation of programmable diffractive lenses with multiple or multi-optical axes, multi-focus, dynamic distance control of focal lengths and energy intensities at foci.**
ÇELİK G., KAYA G., KURT M., KAYA N.
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XII. **Generation of Programmable Diffractive Lenses withMultiple or Multi-Optical Axes, Multi–Focus, DynamicDistance Control of Focal Lengths and Energy Intensities atFoci**
Çelik G., KAYA G., KURT M., KAYA N.
TURKISH PHYSICALSOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), 4 - 08 Eylül 2019, cilt.1, ss.27-30

XIII. **Femtosecond laser-induced filamentation control in liquids.**
KESKİN A., KAYA G., KAYA N.
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XIV. **Laser induced molecular alignment of CO2 measured with ATI yields**
KURT M., KAYA G., KURT A., KAYA N.
TFD35:Turkish Physical Society 35.International Physics Congress, Bodrum, Türkiye, 4 - 08 Eylül 2019

XV. **Pressure optimization of High harmonic generation in an argon gas jet**
Sayrac M., Kolomenski A., Strohaber J., Boran Y., Kaya G., KAYA N., Schuessler H.
Cook's Branch Conservancy SIBOR – Workshop 2018, Montgomery, Texas, Amerika Birleşik Devletleri, 09 Kasım

2018, ss.1

XVI. **STUDY OF THREE-DIMENSIONAL MOMENTUM IMAGING DURING H2 PHOTO-FRAGMENTATION**
KAYA N., KAYA G., ALEXANDRE A. K., KURT M., SCHUESSLER H.
TURKISH PHYSICAL SOCIETY 33RD INTERNATIONAL PHYSICS CONGRESS, Bodrum, Türkiye, 6 - 10 Eylül 2017

XVII. **Laser induced field-free molecular alignment in dissipative media**
KAYA G., KAYA N.
TFD33: Turkish Physical Society 33rd International Physics Congress, Bodrum, Turkey., 6 - 09 Eylül 2017

XVIII. **Pressure dependence on nonadiabatic molecular alignment**
KAYA G., KAYA N.
Turkish Physical Society 33rd International Physics Congress, Bodrum, Turkey., 6 - 10 Eylül 2017

XIX. **Analysis of the components of the crude oil samples with no sample pretreatment**
KAYA G., KAYA N.
TFD33: Turkish Physical Society 33rd International Physics Congress, Bodrum, Turkey, 6 - 09 Eylül 2017

XX. **Photo-fragmentation of H2 with femtosecond laser pulses by employing a time-sliced 3D imaging technique**
KAYA N., KAYA G., JAMES S., ALEXANDRE K., KURT M., HANS S.
Turcmos 2017, Bodrum, Türkiye, 26 Haziran - 29 Temmuz 2017

XXI. **Nonadiabatic molecular alignment of linear molecules using circularly polarized femtosecond laser pulses**
KAYA N., KAYA G.
TURCMOS 2017: The 3rd International Turkish Congress on Molecular Spectroscopy, Bodrum, Turkey, 26 - 29 Ağustos 2017

XXII. **Spatio-Temporal Control of Femtosecond Laser Filamentation and White-Light Generation**
KAYA N., Kaya G., STROHABER J., Kolomenskii A., SCHUESSLER H.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Türkiye, 6 - 09 Eylül 2016, cilt.1815

XXIII. **Field-free molecular alignment probed via photoelectron ionization yields and white-light generation.**
KAYA G., Kaya N., Strohaber J., Kolomenskii A. A., Schuessler H. A.
Turkish Physical Society 32nd International Physics Congress, Muğla, Türkiye, 6 - 09 Eylül 2016, ss.58

XXIV. **Spatio temporal control of filamentation and white light generation**
KOLOMENSKI A., KAYA N., KAYA G., STROHABER J., SCHUESSLER H.
LPHYS'16: 25th Annual International Laser Physics Workshop, Yerevan, Ermenistan, 11 - 15 Temmuz 2016

XXV. **Manifestations of Induced Molecular Alignment in the Interaction of Ultrafast Laser Pulses with Gases**
KOLOMENSKI A., KAYA N., KAYA G., SAYRAC M., BORAN Y., STROHABER J., SCHUESSLER H.
LPHYS'16: 25th Annual International Laser Physics Workshop, Yerevan, Ermenistan, 11 - 15 Temmuz 2016

XXVI. **Photo electron yields of linear molecules aligned by circularly polarized femtosecond laser pulses**
KAYA G., KAYA N., KOLOMENSKI A., SCHUESSLER H.
SWUFC-2016 Southwest Ultrafast Conference, AUSTIN, Amerika Birleşik Devletleri, 16 - 17 Haziran 2016

XXVII. **Impulsive molecular alignment control on filamentation**
KAYA N., KAYA G., KOLOMENSKI A., SCHUESSLER H.
SWUFC-2016 Southwest Ultrafast Conference, AUSTIN, Amerika Birleşik Devletleri, 16 - 17 Haziran 2016

XXVIII. **Sensitive Molecular Spectroscopy of crude oil and well gas**
Kaya G., Kaya N., Amani M., Kolomenskii A. A., Schuessler H. A.
Forcing partnerships to meet challenges: The 5th annual Research-Industry Partnership Showcase, Ad-Dawhah, Qatar, 15 Mayıs 2016

XXIX. **Intensity resolved above-threshold ionization of xenon with short laser pulses**
Hart N. A., Strohaber J., KAYA G., KAYA N., Kolomenskii A. A., Schuessler H. A.
SIBOR 2015 -Workshop, Texas, Amerika Birleşik Devletleri, 6 - 07 Kasım 2015

XXX. **Time sliced 3D momentum imaging of Hdyrogen ion photofragmentation**

KAYA N., KAYA G., STROHABER J., KOLOMENSKI A., SCHUESSLER H.
SIBOR 2015- Workshop, Cook's Branch Conservancy, MONTGOMERY, TEXAS, Amerika Birleşik Devletleri, 06 Kasım 2015

XXXI. **Molecular alignment control of filamentation**
Kaya N., Kaya G., Sayrac M., Anumula S., Boran Y., Kolomenskıı A., Amanı M., Schuessler H.
ATTO2015: 5th International conference on Attosecond Physics. July 6-10, 2015 in Saint-Sauveur, Québec, Canada., Quebec, Kanada, 6 - 10 Temmuz 2015

XXXII. **Filament propagation length of femtosecond pulses with Gaussian and Bessel Gaussian modes**
KAYA N., MUHAMMED S., KAYA G., BORAN Y., JAMES S., ALEXANDRE K., HANS S.
Bulletin of the American Physical Society: Fall 2014 Joint Meeting of the Texas Section of the APS, Texas Section of the AAPT, and Zone 13 of the Society of Physics Students, Amerika Birleşik Devletleri, 17 - 19 Ekim 2014, cilt.59

XXXIII. **Effect of different transverse modes of femtosecond pulses on filament propagation**
Kaya N., Kaya G., Sayrac M., Strohaber J., Kolomenskı A., Schuessler H.
ICAP 2014: 24th International Conference on Atomic Physics, August 3-8, 2014, Washington D.C., Washington, Kiribati, 3 - 08 Ağustos 2014

XXXIV. **Molecular alignment measured with photoelectron ionization yields**
KAYA G., Kaya N., Strohaber J., Hart N. A., Sayraç M., Kolomenskii A. A., Schuessler H. A.
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XXXV. **Time sliced 3D momentum imaging of H2 photofragmentation**
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XXXVI. **Pressure optimization of high harmonic generation with argon gas jet**
Sayraç M., Kolomenskii A. A., Strohaber J., Boran Y., KAYA G., Kaya N., Schuessler H. A.
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XXXVII. **Revival structures of N2 Molecules in Field-Free Alignment by Above Threshold Ionization**
KAYA G., Strohaber J., KAYA N., Hart N., Kolomenskii A. A., Schuessler H. A.
SIBOR 2013 - Workshop, Montgomery, Teksas, Amerika Birleşik Devletleri, 01 Kasım 2013

XXXVIII. **Enhancement or suppression of white light generation at the interaction of crossing femtosecond laser beams**
KAYA N., KOLOMENSKI A., KAYA G., SCHROEDER H., STROHABER J., SCHUESSLER H.
SIBOR 2013- Workshop, Cook's Branch Conservancy, MONTGOMERY, TEKSAS, Amerika Birleşik Devletleri, 01 Kasım 2013

XXXIX. **Time sliced 3D imaging of photodissociation of H2 at 800nm**
KAYA N., PHAM F., KAYA G., STROHABER J., KOLOMENSKI A., PAULUS G., SCHUESSLER H.
SIBOR 2013- Workshop, Cook's Branch Conservancy, MONTGOMERY, TEXAS, Amerika Birleşik Devletleri, 01 Kasım 2013

XL. **Pressure optimization of HHG for bio-chemical applications**
Sayraç M., Kolomenskii A. A., Anumula S., Boran Y., KAYA G., KAYA N., Schuessler H.
SIBOR2014- Workshop, Montgomery, Teksas, Amerika Birleşik Devletleri, 07 Kasım 2014 - 01 Kasım 2013

XLI. **Molecular rotational constants of N2, O2, CO, and C2H2 measured with photoelectron ionization yield**
KAYA G., KAYA N., Hart N. A., Sayraç M., Anumula S., Strohaber J., Kolomenskii A. A., Amani M., Schuessler H. A.
SIBOR 2014 - Workshop, Montgomery, Teksas, Amerika Birleşik Devletleri, 07 Kasım 2014 - 01 Kasım 2013

XLII. **White light generation by intense femtosecond pulses with different transverse modes A detailed study on Bessel beam propagation**
KAYA N., SAYRAC M., KAYA G., STROHABER J., KOLOMENSKI A., SCHUESSLER H.
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XLIII. **White-light generation by intense femtosecond pulses with different transverse modes**
KAYA N., Sayraç M., KAYA G., Strohaber J., Kolomenskii A. A., Schuessler H. A.
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XLIV. **Intensity-resolved above threshold ionization yields obtained with femtosecond laser pulses**
Hart N. A., Strohaber J., KAYA G., Kolomenskii A. A., Paulus G. G., Schuessler H. A.
ICAP 2012: The 23rd International Conference on Atomic Physics, Palaiseau, Fransa, 23 - 27 Temmuz 2012, ss.274

XLV. **In situ tomography of femtosecond optical beams with a holographic knife-edge**
Strohaber J., KAYA G., Kaya N., Hart N. A., Kolomenskii A. A., Paulus G. G., Schuessler H. A.
ICAP2012: The 23rd International Conference on Atomic Physics, Palaiseau, Fransa, 23 - 27 Temmuz 2012, ss.274

XLVI. **White light generation using spatially structured beams of femtosecond radiation**
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ICAP 2012: The 23rd International Conference on Atomic Physics, 23-27 July 2012 Ecole polytechnique, Palaiseau-France, Saint-Paul, Fransa, 23 - 27 Temmuz 2012

Desteklenen Projeler

Kaya N., KAYA G., KURT A., TÜBİTAK Projesi, Metan Ölçümleri Için Yeni Ultra-Hassas Optik Sensör Geliştirilmesi, 2022 - 2024
KAYA G., KAYA N., KURT M., KURT A., Yükseköğretim Kurumları Destekli Proje, Faz temelli uzamsal ışık modülatörü kullanarak holografik Airy ışınlarının üretilmesi, 2021 - 2023
Kaya G., Kaya N., TÜBİTAK Projesi, Eş Eksenli Ya Da Çok Eksenli, Çok Odaklı Programlanabilir Holografik Difraktif Lenslerin Üretilmesi, 2020 - 2023
KURT M., ÇİFTÇİ B. Ç., KAYA G., Yükseköğretim Kurumları Destekli Proje, PİEZOELERKTRİK TABANLI AKUSTİK FREKANS ÇÖZÜMLEYİCİ, 2019 - 2021
Kaya G., Diğer Uluslararası Fon Programları, Remote Measurements of Hydrocarbon and Greenhouse Gases in Fluids Carrying Them, 2013 - 2016
Kaya G., Diğer Uluslararası Fon Programları, Gas tracers for interwell exploring petroleum reservoir structure, 2012 - 2016
Kaya G., Diğer Uluslararası Fon Programları, Optical Studies of Ultra Cold Molecular Ions Using Femtosecond and XUV Laser Radiation, 2012 - 2014
Kaya G., Schuessler H. A., Diğer Uluslararası Fon Programları, Development of a Phase-coherent Laser System for Attosecond Science and Precision Spectroscopy, 2007 - 2013
Kaya G., Schuessler H. A., Diğer Uluslararası Fon Programları, Quantum Optics with Single Optical Cycles, 2006 - 2012

Bilimsel Kuruluşlardaki Üyelikler / Görevler

Amerikan Fizik Topluluğu / American Physical Society (APS), Üye, 2014 - 2015

Metrikler

Yayın: 78
Atıf (WoS): 116
Atıf (Scopus): 122
H-İndeks (WoS): 7
H-İndeks (Scopus): 7