



بحوث قسم الفيزياء لعام 2020-2021

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الاستاذ الدكتور
جبار منصور خلف شوكة
رئيس قسم الفيزياء

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

التوقيع :

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مصادقة السيد العميد



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1	د. قصي محمد + د. حسن عبدالله	Spectroscopic and thermal nonlinearity study of a Schiff base compound	Optical Materials	2020	كلارفيت وسكوبس	Q2	https://www.sciencedirect.com/science/article/abs/pii/S0925346720300549
2		Synthesis and optical nonlinear properties performance of azonaphthol dye	Physica Scripta	2020	كلارفيت وسكوبس	Q2	https://iopscience.iop.org/article/10.1088/1402-4896/abd1b2/meta
3	Ghufran M. Shabeeb, Qusay M.A. Hassan, H.A. Sultan	Investigating the nonlinear optical properties of poly eosin-Y phthalate solution under irradiation with low power visible CW laser light	Physica B	2020	كلارفيت وسكوبس	Q2	https://www.sciencedirect.com/science/article/abs/pii/S0921452619307343
4	Qusay M.A. Hassan, H. Bakr, H.A. Sultan	Studying the surface morphology, optical and nonlinear optical properties of epoxy resin doped nickel nitrate film	Optik	2020	كلارفيت وسكوبس	Q2	https://www.sciencedirect.com/science/article/abs/pii/S0030402620306070
5	Qusay M A Hassan , and H A Sultan	Characterizing optical and morphological properties of Eriochrome Black T doped	Physica Scripta	2020	كلارفيت وسكوبس	Q2	https://iopscience.iop.org/article/10.1088/1402-4896/abb0ac/meta

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96	Dielectric absorption correlated to ferromagnetic behavior in (Cr, Ni)-codoped 4H-SiC for microwave applications	2120	Journal of Molecular Structure		1Q	https://doi.org/10.1016/j.molstruc.2021.131462
97	Effect of detuning on Synchronization of Semiconductor Lasers	2120	IOP Conf. Series: Journal of Physics		Q3	https://doi.org/10.1088/1742-6596/1963/1/012109
98	Effect Of Magnesium Content On The Growth Thick Films Of Epoxy Prepared By The Casting Method	2120	International Journal in Physical and Applied Sciences		عالمية	Volume 08 Issue 6, June
99	Estimation The Concentration Of Uranium In The Sediments Of The Southern Part Of The Shatt Al-Arab River, South Of Basrah Governorate Using Ssntds(Cr-39)Techniques	2120	MINAR International Journal of Applied Sciences and Technology		عالمية	http://dx.doi.org/10.47832/2717-8234.3-3.4
100	Study of structural and magnetic properties for the magnetic system Ba _{0.2} Sr _{0.8} Fe ₁₂ O ₁₉	2120	IOP Conf. Series: Journal of Physics		Q3	https://doi.org/10.1088/1742-6596/1999/1/012052

	nanoparticle powder via chemical coprecipitation method					
101	Resonant Cavity–Enhanced of Photodiodes for Spectroscopy C–H Bonds	2120	Phys. Status Solidi A		Q1	https://doi.org/10.1002/pssa.202100056
102	Investigation of third order nonlinearity of Ethidium bromide doped deoxyribonucleic acid) DNA)	2120	IOP Conf. Series: Journal of Physics		Q3	https://doi.org/10.1088/1742-6596/1963/1/012136
103	Study of Colorimetric properties of Ethidium bromide dyedoped PVP/DNA film.	2120	IOP Conf. Series: Journal of Physics		3Q	https://doi.org/10.1088/1742-6596/1963/1/012102
104	Study the Effect of Concentration on the Evolution of Far-Field Diffraction Patterns of Bromocresol Purple and Congo Red Solution	2120	IOP Conf. Series: Journal of Physics		3Q	https://doi.org/10.1088/1742-6596/1963/1/012013
105	Gas-sensing performance enhancement in ZnS/polymer films homogenous morphology by surface	2120	IOP Conf. Series: Journal of Physics		3Q	https://doi.org/10.1088/1742-6596/1999/1/012066
105	Application the Synchronization Adaptive-Observer Method of	2120	AIP Conference Proceedings		3Q	https://doi.org/10.1063/5.0068906
105	Photocatalytic activity and	2120	Nanotechnolo		1Q	https://doi.org/10.1088/1361-

	photoelectrochemical properties of shell nanorods under / core Ag/ZnO white light irradiation low-intensity		gy			6528/abe3b3
106	Synthesis And Characterization Of Poly (3ht - Co - Th) - Pmma Films Polymer Blend	2021	Int. J. Adv. Res.		عالمية	http://dx.doi.org/10.21474/IJA R01/12597
107	Optical frequency comb generation in semiconductor lasers using optical injection locking technique	2021	Journal of Basrah Researches ((Sciences))		محلية	https://www.iasj.net/iasj/journal/260/issues
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109	A study half-metallic surfaces of the full-Heusler Sc ₂ CrGe compound and the interface of Sc ₂ CrGe/InSb (111)	2021	Journal of Electron Spectroscopy and Related Phenomena		Q1	https://doi.org/10.1016/j.elspec.2021.147060
110	Bulk, surfaces, and interface investigations of electronic and magnetic properties: A case of the half-Heusler alloy MgCaB	2021	Physics Letters A		Q2	https://doi.org/10.1016/j.physleta.2021.127572
111	Preserving the half-metallicity at the full Heusler alloy Sc ₂ CrSi	2021	Journal of Magnetism		Q2	https://doi.org/10.1016/j.jmmm.2021.168371

	surfaces as well as Sc ₂ CrSi/HgTe (1 1 1) interface		and Magnetic Materials			
112	Optical Frequency Comb Generation In Semiconductor Lasers Using Qswitching and Mode Locking Techniques	2021	International Journal of Applied Science and Engineering Review		عالمية	<a href="http://dx.doi.org/10.52267/IJA
SER.2021.2407">http://dx.doi.org/10.52267/IJA SER.2021.2407

